

(c) a non-aqueous phase, wherein the non-aqueous phase comprises at least a gelling-sufficient amount of at least one non-siloxane-based polyamide resin having a terminal end group selected from acid and ester groups, and at least one ethylene-oxide containing surfactant.

46. The emulsion of claim 45 wherein said emulsion is wax-free.

47. A method of making a cosmetic composition comprising the steps of adding a gelling-sufficient amount of a non-siloxane-based polyamide resin to an emulsion comprising a non-aqueous phase and an aqueous phase, and dispersing the aqueous phase with the non-aqueous phase, at least one alkylene-oxide-containing emulsion stabilizer, and a colorant, wherein the colorant is present in an amount ranging from 0.5% to 30%.

48. A method of making a cosmetic composition according to claim 47, wherein said composition further comprises one or more active agents.

49.-51. Canceled.

52. A cosmetic composition comprising an emulsion comprising an aqueous phase and a non-aqueous phase, wherein the non-aqueous phase is gelled with at least one non-siloxane-based polyamide resin and at least one

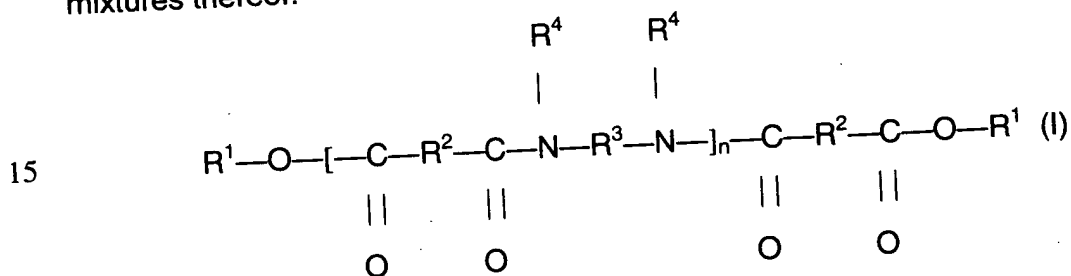
alkylene-oxide-containing emulsion stabilizer, and at least one color component present in an amount ranging from 0.01% to 50% by weight of the composition.

PENDING CLAIMS
Application No. 10/450,108
Attorney Docket No. 05725.1198
Filed: June 11, 2003

- 5 1. Composition comprising, in a physiologically acceptable medium containing a fatty phase, at least one first polymer with a weight-average molecular mass of less than 100 000, comprising a) a polymer skeleton containing hydrocarbon-based repeating units containing at least one
10 hetero atom, and optionally b) at least one pendent fatty chain and/or at least one terminal fatty chain, which may be functionalized, containing from 6 to 120 carbon atoms and being linked to these hydrocarbon-based units, and at least one or more fibres.
- 15 2. Composition according to Claim 1, characterized in that the average molar mass of the first polymer is less than 100 000, preferably less than 50 000.
3. Composition according to Claim 1 or 2, characterized in that the
20 units containing a hetero atom of the first polymer comprise a nitrogen atom.
4. Composition according to one of the preceding claims, characterized in that the units containing a hetero atom of the first polymer are amide
25 groups.
5. Composition according to one of the preceding claims, characterized in that the fatty chains represent from 40% to 98% and better still from 50% to 95% of the total number of units containing a hetero atom and of fatty
30 chains.
6. Composition according to one of the preceding claims, characterized in that the pendent fatty chains are linked directly to at least one of the said hetero atoms.

7. Composition comprising, in a physiologically acceptable medium comprising a fatty phase, at least one first polyamide polymer with a weight-average molecular mass of less than 100 000, comprising a) a polymer skeleton containing amide repeating units, and b) optionally at least one pendent fatty chain and/or at least one terminal fatty chain, which may be functionalized, containing from 6 to 120 carbon atoms and being linked to these amide units, and one or more fibres.
8. Composition according to the preceding claim, characterized in that the fatty chains represent from 40% to 98% of the total number of amide units and of fatty chains.
9. Composition according to Claim 7 or 8, characterized in that the fatty chains represent from 50% to 95% of the total number of amide units and of fatty chains.
10. Composition according to one of Claims 7 to 10, characterized in that the pendent fatty chains are linked directly to at least one of the nitrogen atoms of the amide units.
11. Composition according to one of the preceding claims, characterized in that the average molar mass of the first polymer ranges from 1 000 to 100 000, preferably from 1 000 to 50 000 and better still from 1 000 to 30 000.
12. Composition according to one of the preceding claims, characterized in that the weight-average molar mass of the first film-forming polymer ranges from 2 000 to 20 000 and preferably from 2 000 to 10 000.

13. Composition according to one of the preceding claims, characterized in that the terminal fatty chain(s) is (are) linked to the skeleton via bonding groups.
- 5 14. Composition according to Claim 13, characterized in that the bonding groups are ester groups.
15. Composition according to one of the preceding claims, characterized in that the fatty chain(s) contain(s) from 12 to 68 carbon atoms.
- 10 16. Composition according to one of the preceding claims, characterized in that the first polymer is chosen from polymers of formula (I) below, and mixtures thereof:



- in which n denotes a number of amide units such that the number of ester groups represents from 10% to 50% of the total number of ester and amide groups; R¹ is, independently in each case, an alkyl or alkenyl group containing at least 4 carbon atoms; R² represents, independently in each case, a C₄ to C₄₂ hydrocarbon-based group, on condition that 50% of the groups R² represent a C₃₀ to C₄₂ hydrocarbon-based group; R³ represents, independently in each case, an organic group containing at least 2 carbon atoms, hydrogen atoms and optionally one or more oxygen or nitrogen atoms; and R⁴ represents, independently in each case, a hydrogen atom, a C₁ to C₁₀ alkyl group or a direct bond to R³ or to another R⁴, such that the nitrogen atom to which R³ and R⁴ are both attached forms part of a heterocyclic structure defined by R⁴-N-R³, with at least 50% of the groups
- 20
- 25
- 30 R⁴ representing a hydrogen atom.

17. Composition according to the preceding claim, characterized in that R^1 is a C_{12} to C_{22} alkyl group.
18. Composition according to either of Claims 15 and 16, characterized in that R^2 are groups containing from 30 to 42 carbon atoms.
19. Composition according to one of the preceding claims, characterized in that the first polymer is present in a content ranging from 0.01% to 10% by weight, relative to the total weight of the composition, preferably ranging from 0.05% to 5% by weight and better still ranging from 0.1% to 3% by weight.
20. Composition according to one of the preceding claims, characterized in that the fibre(s) is(are) chosen from silk, cotton, wool or flax fibres, cellulose fibres extracted in particular from wood, plants or algae, polyamide, cork, sugar cane, rayon or viscose fibres, acetate fibres, in particular rayon acetate, cellulose acetate or silk acetate fibres, poly(p-phenyleneterephthalamide) fibres, acrylic polymer fibres, in particular polymethyl methacrylate or poly-2-hydroxyethyl methacrylate fibres, polyolefin fibres and in particular polyethylene or polypropylene fibres, glass, silica or carbon fibres, in particular in graphite form, polytetrafluoroethylene, insoluble collagen, polyester, polyvinyl chloride or polyvinylidene chloride, polyvinyl alcohol, polyacrylonitrile, chitosan, polyurethane or polyethylene phthalate fibres, fibres formed from mixtures of polymers, and surgical fibres, and mixtures thereof.
21. Composition according to any one of the preceding claims, characterized in that the fibres are fibres of synthetic origin.
22. Composition according to one of the preceding claims, characterized in that the fibre(s) contain(s) a chemical group of the same chemical nature

as that of the units of the structuring polymer or a group capable of forming physical bonds of the same type as that of the units of the polymer.

23. Composition according to one of the preceding claims, characterized
5 in that the fibre is hydrophobic-treated.

24. Composition according to any one of the preceding claims,
characterized in that the fibres are polyamide fibres or poly-
(p-phenyleneterephthamide) fibres.

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25. Composition according to any one of the preceding claims,
characterized in that the fibres have a length L and a diameter D such that
L/D is chosen in the range from 1.5 to 2 500, preferably from 3.5 to 500 and
better still from 5 to 150.

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26. Composition according to any one of the preceding claims,
characterized in that the fibres have a length ranging from 1 nm to 20 mm,
preferably from 10 nm to 5 mm and more preferably from 0.1 mm to
1.6 mm,

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27. Composition according to one of the preceding claims, characterized
in that the fibre is present in a content ranging from 0.1% to 40% by weight,
relative to the total weight of the composition, preferably from 1% to 30%
by weight and better still from 5% to 20% by weight.

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28. Composition according to any one of the preceding claims,
characterized in that it contains at least one wax.

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29. Composition according to any one of the preceding claims,
characterized in that it contains at least one wax having a melting point of
greater than 30°C, which may be up to 120°C.

30. Composition according to any one of the preceding claims, characterized in that it contains a wax chosen from the group formed by beeswax, lanolin wax, Chinese insect waxes, rice wax, carnauba wax, candelilla wax, ouricury wax, cork fibre wax, sugar cane wax, Japan wax, 5 sumach wax, montan wax, microcrystalline waxes, paraffin waxes, ozokerites, ceresin wax, lignite wax, polyethylene waxes and the waxes obtained by Fisher-Tropsch synthesis, fatty acid esters of glycerides that are solid at 40°C, the waxes obtained by catalytic hydrogenation of animal or plant oils containing linear or branched C₈-C₃₂ fatty chains, silicone 10 waxes and fluoro waxes, and mixtures thereof.

31. Composition according to any one of the preceding claims, characterized in that it comprises a wax having a hardness ranging from 0.05 MPa to 15 MPa.

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32. Composition according to any one of Claims 28 to 31, characterized in that the wax is dispersed in an aqueous medium in the form of particles with an average size ranging from 50 nm to 10 µm and preferably ranging from 50 nm to 3.5 µm.

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33. Composition according to any one of Claims 28 to 32, characterized in that the wax is present in a content ranging from 0.1% to 50% by weight, relative to the total weight of the composition, preferably from 0.5% to 30% by weight and better still from 1% to 20% by weight.

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34. Composition according to any one of the preceding claims, characterized in that it contains a volatile oil or organic solvent.

35. Composition according to Claim 34, characterized in that the volatile 30 oil is chosen from hydrocarbon-based volatile oils containing from 8 to 16 carbon atoms.

36. Composition according to Claim 34 or 35, characterized in that the volatile oil is present in a content ranging from 0.1% to 98% by weight, relative to the total weight of the composition, and preferably ranging from 1% to 65% by weight.

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37. Composition according to one of the preceding claims, characterized in that it comprises a non-volatile oil.

38. Composition according to one of the preceding claims, characterized in that it also contains at least one non-volatile oil chosen from
10 hydrocarbon-based oils of mineral, plant or synthetic origin, synthetic esters or ethers and silicone oils, and mixtures thereof.

39. Composition according to one of the preceding claims, characterized in that the fatty phase is present in a content ranging from 2% to 98% by
15 weight, relative to the total weight of the composition, preferably ranging from 5% to 85% by weight.

40. Composition according to any one of the preceding claims, characterized in that it comprises an aqueous phase.

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41. Composition according to any one of the preceding claims, characterized in that it comprises a second film-forming polymer which is different from the first polymer.

25 42. Composition according to Claim 41, characterized in that the second film-forming polymer is chosen from the group formed by vinyl polymers, polyurethanes, polyesters, polyamides, polyureas and cellulose polymers.

43. Composition according to Claim 41 or 42, characterized in that the
30 second film-forming polymer is dissolved in an aqueous phase or is in the form of particles in aqueous dispersion.

44. Composition according to any one of Claims 40 to 42, characterized in that the second film-forming polymer is dissolved or dispersed in the form of surface-stabilized particles in a liquid fatty phase.

5 45. Composition according to any one of Claims 40 to 44, characterized in that the second film-forming polymer is present in a content ranging from 0.1% to 60% by weight, relative to the total weight of the composition, preferably from 0.5% to 40% by weight and better still from 1% to 30% by weight.

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46. Composition according to one of the preceding claims, characterized in that it also contains at least one dyestuff.

15 47. Composition according to Claim 46, characterized in that the dyestuff is chosen from pigments, naces, liposoluble dyes and water-soluble dyes, and mixtures thereof.

48. Composition according to Claim 46 or 47, characterized in that the dyestuff is present in a proportion of from 0.01% to 50% relative to the total weight of the composition, preferably ranging from 0.01% to 30% by weight.

20 49. Composition according to one of the preceding claims, characterized in that it constitutes a care composition or make-up composition for keratin materials.

25 50. Composition according to one of the preceding claims, characterized in that it contains at least one additive chosen from water, antioxidants, fillers, preserving agents, fragrances, neutralizing agents, thickeners and cosmetic or dermatological active agents, and mixtures thereof.

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51. Composition according to one of the preceding claims, characterized in that it is in the form of a mascara, an eyeliner, a product for the eyebrows, a product for the lips, a face powder, an eyeshadow, a foundation, a make-up product for the body, a concealer product, a nail
5 varnish, a skincare product or a haircare product.

52. Mascara comprising a composition according to any one of Claims 1 to 50.

10 53. Cosmetic process for making up or caring for the keratin materials of human beings, comprising the application of a cosmetic composition in accordance with one of Claims 1 to 51 to the keratin materials.

54. Use of a composition according to any one of Claims 1 to 51 to
15 obtain a deposit which adheres to keratin materials.

55. Use of a mascara according to Claim 52 to thicken and/or lengthen the eyelashes.

20 56. Use of a combination of at least one first polymer with a weight-average molecular mass of less than 100 000 and better still less than 50 000, comprising a) a polymer skeleton containing hydrocarbon-based repeating units containing at least one hetero atom, and b) optionally at least one pendent fatty chain and/or at least one terminal fatty chain, which
25 may be functionalized, containing from 6 to 120 carbon atoms and being linked to these hydrocarbon-based units, and at least one fibre, in a physiologically acceptable composition, to obtain a deposit which adheres to keratin materials.

30 57. Use according to Claim 56, characterized in that the fibre(s) contain(s) a chemical group of the same chemical nature as those of the

units of the first polymer or a group capable of forming physical bonds of the same type as that of the units of the first polymer.

58. Use according to Claim 56 or 57, characterized in that the first
5 polymer is a polyamide comprising end groups containing an ester group comprising a hydrocarbon-based chain containing from 10 to 42 carbon atoms.

59. Use according to one of Claims 56 to 58, characterized in that the
10 fibre is chosen from polyester fibres, polyamide fibres or poly-(p-phenylene terephthalamide) fibres.

60. Use according to one of Claims 56 to 59, characterized in that the
15 first polymer has a weight-average molecular mass ranging from 1 000 to 30 000.

61. Use according to any one of Claims 56 to 60, characterized in that the composition comprises a second film-forming polymer which is different from the first polymer.

ABSTRACT

Cosmetic composition comprising a polymer and fibres

The invention relates to a composition comprising, in a physiologically acceptable medium containing a fatty phase, a polymer with a weight-average molecular mass of less than 100 000 and in particular ranging from 1 000 to 30 000, comprising a) a polymer skeleton containing hydrocarbon-based repeating units containing at least one hetero atom, and optionally b) pendent fatty chains and/or terminal fatty chains, which may be functionalized, containing from 6 to 120 carbon atoms and being linked to these units, and fibres

PENDING CLAIMS
Application No. 10/466,166
Attorney Docket No. 05825.1228
Filed: July 14, 2003

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1. Composition comprising, in a physiologically acceptable medium containing a fatty phase:

- (i) a first polymer with a weight-average molecular mass of less than 100 000, comprising a) a polymer skeleton with hydrocarbon-based repeating units containing at least one hetero atom, and optionally b) optionally functionalized pendent and/or terminal fatty chains containing from 6 to 120 carbon atoms, which are linked to these hydrocarbon-based units,
 - (ii) an anionic film-forming polymer,
 - 15 - (iii) a cationic film-forming polymer,
- the said anionic and cationic film-forming polymers being different from the said first polymer.

2. Composition according to Claim 1, characterized in that the average molar mass of the first polymer is less than 50 000.

20 3. Composition according to Claim 1 or 2, characterized in that the units containing a hetero atom of the first polymer are amide groups.

4. Composition according to any one of the preceding claims, characterized in that the fatty chains of the auxiliary polymer represent from 40% to 98% of the total number of units containing a hetero atom and of fatty chains.

25 5. Composition according to any one of the preceding claims, characterized in that the fatty chains of the first polymer represent from 50% to 95% of the total number of units containing a hetero atom and of fatty chains.

30 6. Composition according to any one of the preceding claims, characterized in that the pendent fatty chains of the first polymer are linked directly to at least one of the said hetero atoms.

7. Composition containing, in a cosmetically acceptable

medium:

- (i) a first polyamide polymer with a weight-average molecular mass of less than 100 000, comprising a) a polymer skeleton with amide repeating units and b) optionally at least one optionally functionalized pendent fatty chain and/or at least one optionally functionalized terminal chain, containing from 6 to 120 carbon atoms, which are linked to these amide units,
 - (ii) an anionic film-forming polymer,
 - (iii) a cationic film-forming polymer,
- 10 the said anionic and cationic film-forming polymers being different from the said first polymer.

8. Composition according to Claim 6, characterized in that the fatty chains of the first polymer represent from 40% to 98% of the total number of amide units and of fatty chains.

15 9. Composition according to any one of Claims 6 to 8, characterized in that the fatty chains of the first polymer represent from 50% to 95% of the total number of amide units and of fatty chains.

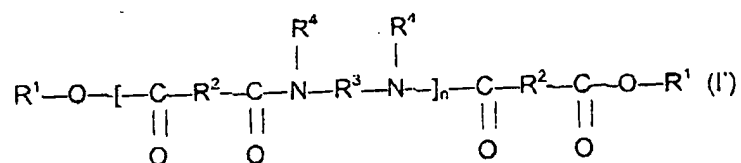
10. Composition according to any one of Claims 6 to 9, characterized in that the pendent fatty chains of the first polymer are linked directly to at least one of the nitrogen atoms of the amide units.

11. Composition according to any one of the preceding claims, characterized in that the weight-average molecular mass of the first polymer ranges from 2000 to 20 000 and better still from 2000 to 10 000.

12. Composition according to any one of the preceding claims, characterized in that the terminal fatty chains of the first polymer are linked to the skeleton via ester groups.

13. Composition according to any one of the preceding claims, characterized in that the fatty chains of the auxiliary polymer contain from 12 to 68 carbon atoms.

14. Composition according to any one of the preceding claims, characterized in that the first polymer is chosen from the polymers of formula (I') below, and mixtures thereof:



- in which n denotes a number of amide units such that the number of ester groups represents from 10% to 50% of the total number of ester and amide groups; R¹ is, independently in each case, an alkyl or alkenyl group containing at least 4 carbon atoms; R² represents, independently in each case, a C₄ to C₄₂ hydrocarbon-based group, on condition that at least 50% of the groups R² represent a C₃₀ to C₄₂ hydrocarbon-based group; R³ represents, independently in each case, an organic group containing at least 2 carbon atoms, hydrogen atoms and optionally one or more oxygen or nitrogen atoms; and R⁴ represents, independently in each case, a hydrogen atom, a C₁ to C₁₀ alkyl group or a direct bond to R³ or to another R⁴, such that the nitrogen atom to which R³ and R⁴ are both attached forms part of a heterocyclic structure defined by R⁴-N-R³, with at least 50% of the groups R⁴ representing a hydrogen atom.

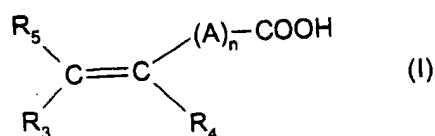
15. Composition according to Claim 14, characterized in that R¹ is a C₁₂ to C₂₂ alkyl group.

16. Composition according to Claim 14 or 15, characterized in that the radicals R² are groups containing from 30 to 42 carbon atoms.

17. Composition according to any one of the preceding claims, characterized in that the first polymer is present in a content ranging from 0.01% to 10% by weight, preferably ranging from 0.05% to 5% by weight and better still ranging from 0.1% to 3% by weight, relative to the total weight of the composition.

18. Composition according to any one of the preceding claims, characterized in that the anionic film-forming polymer is chosen from:

- polymers comprising carboxylic units derived from unsaturated monocarboxylic or dicarboxylic acid monomers of formula (I):



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in which n is an integer from 0 to 10, A denotes a methylene group, optionally connected to the carbon atom of the unsaturated group or to the neighbouring methylene group when n is greater than 1 via a hetero atom such as oxygen or sulphur, R₅ denotes a hydrogen atom or a phenyl or

- 10 benzyl group, R₃ denotes a hydrogen atom or a lower alkyl or carboxyl group, and R₄ denotes a hydrogen atom, a lower alkyl group or a -CH₂-COOH, phenyl or benzyl group,

- polymers comprising units derived from sulphonic acid, such as vinylsulphonic, styrenesulphonic and acrylamidoalkylsulphonic units, and

- 15 sulphonic polyesters, and

- mixtures thereof.

19. Composition according to any one of the preceding claims, characterized in that the anionic film-forming polymer is chosen from:

- 20 A) homo- or copolymers of acrylic or methacrylic acid or salts thereof, the sodium salts of copolymers of acrylic acid and of acrylamide, and the sodium salts of polyhydroxycarboxylic acids;
- B) copolymers of acrylic or methacrylic acids with a monoethylenic monomer such as ethylene, styrene, vinyl esters and acrylic or methacrylic acid esters, optionally grafted onto a polyalkylene glycol such as
- 25 polyethylene glycol; copolymers of this type comprising in their chain an optionally N-alkylated and/or hydroxyalkylated acrylamide unit, copolymers of acrylic acid and of C₁-C₄ alkyl methacrylate and terpolymers of vinylpyrrolidone, of acrylic acid and of C₁-C₂₀ alkyl methacrylate;

- C) copolymers derived from crotonic acid, such as those whose chain comprises vinyl acetate or propionate units and optionally other monomers such as allylic or methallylic esters, vinyl ether or vinyl ester of a saturated, linear or branched carboxylic acid containing a long hydrocarbon-based chain such as those comprising at least 5 carbon atoms, it being possible for these polymers to be optionally grafted;
- D) polymers derived from maleic, fumaric or itaconic acids or anhydrides with vinyl esters, vinyl ethers, vinyl halides, phenylvinyl derivatives, acrylic acid and esters thereof; copolymers of maleic, citraconic or itaconic anhydrides and of an allylic or methallylic ester optionally comprising an acrylamide, methacrylamide, α -olefin, acrylic or methacrylic ester, acrylic or methacrylic acid or vinylpyrrolidone group in their chain, the anhydride functions are monoesterified or monoamidated;
- E) polyacrylamides comprising carboxylate groups,
- 15 F) deoxyribonucleic acid;
- G) copolymers of at least one dicarboxylic acid, of at least one diol and of at least one difunctional aromatic monomer bearing a group $-\text{SO}_3\text{M}$ with M representing a hydrogen atom, an ammonium ion NH_4^+ or a metal ion; - and mixtures thereof.

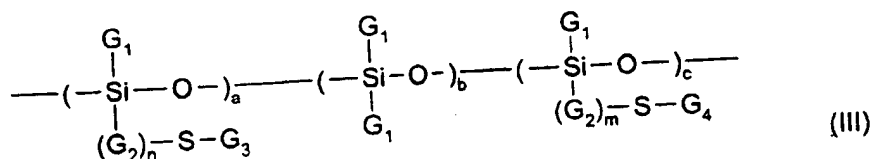
20 20. Composition according to any one of the preceding claims, characterized in that the anionic film-forming polymer is chosen from:

- acrylic or methacrylic acid homopolymers;
- acrylic acid copolymers such as the acrylic acid/ethyl acrylate/N-tert-butylacrylamide terpolymer;
- 25 - copolymers derived from crotonic acid, such as vinyl acetate/vinyl tert-butylbenzoate/crotonic acid terpolymers and crotonic acid/vinyl acetate/vinyl neododecanoate terpolymers;
- polymers derived from maleic, fumaric or itaconic acids or anhydrides with vinyl esters, vinyl ethers, vinyl halides, phenylvinyl derivatives or acrylic acid and esters thereof, such as methyl vinyl ether/monoesterified maleic anhydride copolymers;
- 30

- copolymers of methacrylic acid and of methyl methacrylate;
- copolymers of methacrylic acid and of ethyl acrylate;
- terpolymers of vinylpyrrolidone/acrylic acid/lauryl methacrylate;
- vinyl acetate/crotonic acid copolymers;
- 5 - vinyl acetate/crotonic acid/polyethylene glycol terpolymers;
- sulphopolyesters obtained by condensation of diethylene glycol, cyclohexanedimethanol, isophthalic acid and sulphisophthalic acid,
- and mixtures thereof.

21. Composition according to any one of the preceding
 10 claims, characterized in that the anionic film-forming polymer is chosen from anionic polymers of grafted silicone type comprising a polysiloxane portion and a portion consisting of a non-silicone organic chain, one of the two portions constituting the main chain of the polymer, the other being grafted onto the said main chain.

22. Composition according to Claim 21, characterized in
 15 that the grafted silicone polymer is chosen from silicone polymers whose structure comprises the unit of formula (III) below:



20 in which the radicals G_1 , which may be identical or different, represent hydrogen or a $\text{C}_1\text{-C}_{10}$ alkyl radical or alternatively a phenyl radical; the radicals G_2 , which may be identical or different, represent a $\text{C}_1\text{-C}_{10}$ alkylene group; G_3 represents a polymer residue resulting from the
 25 (homo)polymerization of at least one ethylenically unsaturated anionic monomer; G_4 represents a polymer residue resulting from the (homo)polymerization of at least one ethylenically unsaturated hydrophobic monomer; m and n are equal to 0 or 1; a is an integer ranging from 0 to 50; b is an integer which can be between 10 and 350, c is an integer ranging

from 0 to 50; with the proviso that one of the parameters a and c is other than 0.

23. Composition according to Claim 22, characterized in that the unit of formula (III) has at least one of the following characteristics:

- the radicals G_1 denote a C_1 - C_{10} alkyl radical;
- n is non-zero and the radicals G_2 represent a divalent C_1 - C_3 radical;

- G_3 represents a polymer radical resulting from the (homo)polymerization of at least one monomer such as an ethylenically unsaturated carboxylic acid;

- G_4 represents a polymer radical resulting from the (homo)polymerization of at least one monomer such as a C_1 - C_{10} alkyl (meth)acrylate.

24. Composition according to Claim 22 or 23, characterized in that the unit of formula (III) simultaneously has the following characteristics:

- the radicals G_1 denote a methyl radical;
- n is non-zero and the radicals G_2 represent a propylene radical;
- G_3 represents a polymer radical resulting from the (homo)polymerization of at least acrylic acid and/or methacrylic acid;
- G_4 represents a polymer radical resulting from the (homo)polymerization of at least isobutyl or methyl (meth)acrylate.

25. Composition according to any one of the preceding claims, characterized in that the cationic film-forming polymer is chosen from quaternary cellulose ether derivatives, copolymers of cellulose with a water-soluble quaternary ammonium monomer, cyclopolymers, cationic polysaccharides, cationic silicone polymers, quaternized or non-quaternized vinylpyrrolidone-dialkylaminoalkyl acrylate or methacrylate copolymers, quaternary polymers of vinylpyrrolidone and of vinylimidazole, and polyaminoamides, and mixtures thereof.

26. Composition according to any one of the preceding claims, characterized in that the anionic film-forming polymer is a poly(sodium methacrylate).

27. Composition according to any one of the preceding claims, characterized in that the cationic film-forming polymer is a hydroxy(C₁-C₄)alkylcellulose comprising quaternary ammonium groups.

28. Composition according to any one of the preceding claims, characterized in that the cationic film-forming polymer is present in a content ranging from 0.01% to 20% by weight, preferably from 0.01% to 15% by weight and even more preferentially from 0.05% to 5% by weight, relative to the total weight of the composition.

29. Composition according to any one of the preceding claims, characterized in that the anionic film-forming polymer is present in a content ranging from 0.01% to 20% by weight, preferably from 0.05% to 15% by weight and even more preferentially from 0.1% to 7% by weight, relative to the total weight of the composition.

30. Composition according to any one of the preceding claims, characterized in that it also comprises a wax.

31. Composition according to Claim 30, characterized in that the wax is chosen from the group formed by beeswax, lanolin wax, Chinese insect waxes, rice wax, carnauba wax, candelilla wax, ouricury wax, cork fibre wax, sugar cane wax, Japan wax, sumach wax, montan wax, microcrystalline waxes, paraffin waxes, ozokerites, ceresin wax, lignite wax, polyethylene waxes and the waxes obtained by Fisher-Tropsch synthesis, fatty acid esters of glycerides that are solid at 40°C, the waxes obtained by catalytic hydrogenation of animal or plant oils containing linear or branched C₈-C₃₂ fatty chains, silicone waxes and fluoro waxes, and mixtures thereof.

32. Composition according to Claim 30 or 31, characterized in that the wax is present in a content ranging from 0.1% to 50% by weight, preferably from 0.5% to 40% by weight and better still from 1% to 30% by weight, relative to the total weight of the composition.

33. Composition according to any one of the preceding claims, characterized in that the fatty phase comprises at least one oil chosen from the group formed by hydrocarbon-based oils, fluoro oils and/or silicone oils of mineral, animal, plant or synthetic origin, alone or as a mixture.

34. Composition according to any one of the preceding claims, characterized in that the fatty phase comprises at least one volatile oil.

35. Composition according to any one of the preceding claims, characterized in that the fatty phase comprises a volatile oil chosen from hydrocarbon-based volatile oils containing from 8 to 16 carbon atoms.

36. Composition according to Claim 34 or 35, characterized in that the volatile oil is present in a content ranging from 0.1% to 98% by weight and preferably from 1% to 65% by weight, relative to the total weight of the composition.

37. Composition according to any one of the preceding claims, characterized in that the composition comprises an aqueous phase containing water or a mixture of water and of water-miscible organic solvent.

38. Composition according to any one of the preceding claims, characterized in that the composition contains at least one dyestuff.

39. Composition according to Claim 38, characterized in that the dyestuff is chosen from pigments, naces, water-soluble dyes and liposoluble dyes, and mixtures thereof.

40. Composition according to Claim 38 or 39, characterized in that the dyestuff is present in a proportion of from 0.01% to 30% of the total weight of the composition.

41. Composition according to any one of the preceding claims, characterized in that the composition contains at least one additive chosen from surfactants, thickeners, antioxidants, fillers, preserving agents, fragrances, neutralizers and cosmetic or dermatological active agents, and mixtures thereof.

42. Composition according to any one of the preceding claims, characterized in that the composition is in the form of a mascara, a product for the eyebrows or a product for the hair.

43. Mascara comprising a composition according to any one of Claims 1 to 41.

44. Non-therapeutic makeup or care process for keratin materials, especially keratin fibres, comprising the application to the keratin materials of a composition according to any one of the preceding claims.

45. Use of a composition according to any one of Claims 1 to 42, to obtain a deposit that adheres to keratin materials and/or to obtain a fast makeup result on keratin materials.

46. Use of a mascara according to Claim 43, to thicken the eyelashes.

47. Use of the combination of
 15 - (i) a first polymer with a weight-average molecular mass of less than 100 000, comprising a) a polymer skeleton with hydrocarbon-based repeating units containing at least one hetero atom, and optionally b) optionally functionalized pendent and/or terminal fatty chains containing from 6 to 120 carbon atoms, which are linked to these hydrocarbon-based
 20 units,

- (ii) an anionic film-forming polymer,
 - (iii) a cationic film-forming polymer,
 the said anionic and cationic film-forming polymers being different from the said first polymer, in a makeup composition comprising a physiologically
 25 acceptable medium containing a fatty phase,
 to obtain a deposit that adheres to the keratin materials and/or a fast makeup result on keratin materials and/or to thicken the eyelashes.

48. Use according to Claim 47, characterized in that the average molar mass of the first polymer is less than 50 000.

49. Use according to Claim 47 or 48, characterized in that
 30 the units containing a hetero atom of the first polymer are amide groups.

50. Use according to any one of Claims 47 to 49, characterized in that the fatty chains of the auxiliary polymer represent from 40% to 98% of the total number of units containing a hetero atom and of fatty chains.

5 51. Use according to any one of Claims 47 to 50, characterized in that the fatty chains of the first polymer represent from 50% to 95% of the total number of units containing a hetero atom and of fatty chains.

52. Use according to any one of Claims 47 to 51, characterized in that the pendent fatty chains of the first polymer are linked directly to at least one of the said hetero atoms.

53. Use of the combination of:

15 - (i) a first polyamide polymer with a weight-average molecular mass of less than 100 000, comprising a) a polymer skeleton with amide repeating units and b) optionally at least one optionally functionalized pendent fatty chain and/or at least one optionally functionalized terminal chain, containing from 6 to 120 carbon atoms, which are linked to these amide units,

- (ii) an anionic film-forming polymer,
- (iii) a cationic film-forming polymer,
20 the said anionic and cationic film-forming polymers being different from the said first polymer,

to obtain a deposit that adheres to the keratin materials and/or a fast makeup result on keratin materials and/or to thicken the eyelashes.

54. Use according to Claim 53, characterized in that the
25 fatty chains of the first polymer represent from 40% to 98% of the total number of amide units and of fatty chains.

55. Use according to either of Claims 53 and 54, characterized in that the fatty chains of the first polymer represent from 50% to 95% of the total number of amide units and of fatty chains.

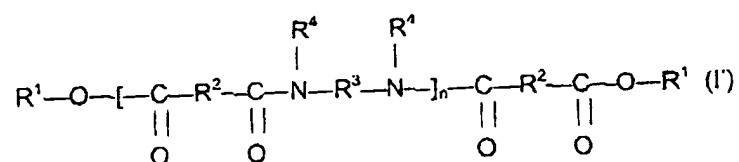
30 56. Use according to any one of Claims 53 to 55, characterized in that the pendent fatty chains of the first polymer are linked directly to at least one of the nitrogen atoms of the amide units.

57. Use according to any one of Claims 47 to 56, characterized in that the weight-average molecular mass of the first polymer ranges from 2000 to 20 000 and better still from 2000 to 10 000.

58. Use according to any one of Claims 47 to 57, characterized in that the terminal fatty chains of the first polymer are linked to the skeleton via ester groups.

59. Use according to any one of Claims 47 to 58, characterized in that the fatty chains of the auxiliary polymer contain from 12 to 68 carbon atoms.

60. Use according to any one of Claims 47 to 59, characterized in that the first polymer is chosen from the polymers of formula (I') below, and mixtures thereof:



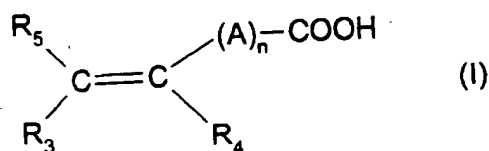
in which n denotes a number of amide units such that the number of ester groups represents from 10% to 50% of the total number of ester and amide groups; R¹ is, independently in each case, an alkyl or alkenyl group containing at least 4 carbon atoms; R² represents, independently in each case, a C₄ to C₄₂ hydrocarbon-based group, on condition that at least 50% of the groups R² represent a C₃₀ to C₄₂ hydrocarbon-based group; R³ represents, independently in each case, an organic group containing at least 2 carbon atoms, hydrogen atoms and optionally one or more oxygen or nitrogen atoms; and R⁴ represents, independently in each case, a hydrogen atom, a C₁ to C₁₀ alkyl group or a direct bond to R³ or to another R⁴, such that the nitrogen atom to which R³ and R⁴ are both attached forms part of a heterocyclic structure defined by R⁴-N-R³, with at least 50% of the groups R⁴ representing a hydrogen atom.

61. Use according to Claim 60, characterized in that R^1 is a C_{12} to C_{22} alkyl group.

62. Use according to Claim 60 or 61, characterized in that the radicals R^2 are groups containing from 30 to 42 carbon atoms.

5 63. Use according to any one of Claims 47 to 62, characterized in that the first polymer is present in the composition in a content ranging from 0.01% to 10% by weight, preferably ranging from 0.05% to 5% by weight and better still ranging from 0.1% to 3% by weight, relative to the total weight of the composition.

10 64. Use according to any one of Claims 47 to 63, characterized in that the anionic film-forming polymer is chosen from:
- polymers comprising carboxylic units derived from unsaturated monocarboxylic or dicarboxylic acid monomers of formula (I):



15 in which n is an integer from 0 to 10, A denotes a methylene group, optionally connected to the carbon atom of the unsaturated group or to the neighbouring methylene group when n is greater than 1 via a hetero atom such as oxygen or sulphur, R_5 denotes a hydrogen atom or a phenyl or benzyl group, R_3 denotes a hydrogen atom or a lower alkyl or carboxyl group, and R_4 denotes a hydrogen atom, a lower alkyl group or a
20 - CH_2-COOH , phenyl or benzyl group,
- polymers comprising units derived from sulphonic acid, such as vinylsulphonic, styrenesulphonic and acrylamidoalkylsulphonic units, and
25 sulphonic polyesters, and
- mixtures thereof.

65. Use according to any one of Claims 47 to 64, characterized in that the anionic film-forming polymer is chosen from:

- A) homo- or copolymers of acrylic or methacrylic acid or salts thereof, the sodium salts of copolymers of acrylic acid and of acrylamide, and the sodium salts of polyhydroxycarboxylic acids;
- B) copolymers of acrylic or methacrylic acids with a monoethylenic monomer such as ethylene, styrene, vinyl esters and acrylic or methacrylic acid esters, optionally grafted onto a polyalkylene glycol such as polyethylene glycol; copolymers of this type comprising in their chain an optionally N-alkylated and/or hydroxyalkylated acrylamide unit, copolymers of acrylic acid and of C₁-C₄ alkyl methacrylate and terpolymers of vinylpyrrolidone, of acrylic acid and of C₁-C₂₀ alkyl methacrylate;
- C) copolymers derived from crotonic acid, such as those whose chain comprises vinyl acetate or propionate units and optionally other monomers such as allylic or methallylic esters, vinyl ether or vinyl ester of a saturated, linear or branched carboxylic acid containing a long hydrocarbon-based chain such as those comprising at least 5 carbon atoms, it being possible for these polymers to be optionally grafted;
- D) polymers derived from maleic, fumaric or itaconic acids or anhydrides with vinyl esters, vinyl ethers, vinyl halides, phenylvinyl derivatives, acrylic acid and esters thereof; copolymers of maleic, citraconic or itaconic anhydrides and of an allylic or methallylic ester optionally comprising an acrylamide, methacrylamide, α -olefin, acrylic or methacrylic ester, acrylic or methacrylic acid or vinylpyrrolidone group in their chain, the anhydride functions are monoesterified or monoamidated;
- E) polyacrylamides comprising carboxylate groups,
- F) deoxyribonucleic acid;
- G) copolymers of at least one dicarboxylic acid, of at least one diol and of at least one difunctional aromatic monomer bearing a group -SO₃M with M representing a hydrogen atom, an ammonium ion NH₄⁺ or a metal ion; - and mixtures thereof.
66. Use according to any one of Claims 47 to 65, characterized in that the anionic film-forming polymer is chosen from:
- acrylic or methacrylic acid homopolymers;

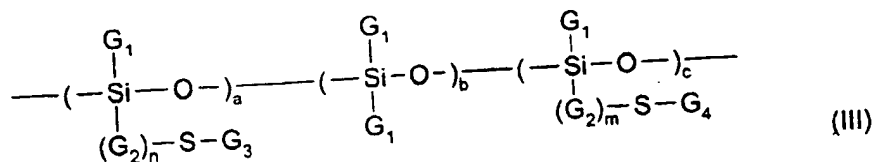
- acrylic acid copolymers such as the acrylic acid/ethyl acrylate/N-tert-butylacrylamide terpolymer;
- copolymers derived from crotonic acid, such as vinyl acetate/vinyl tert-butylbenzoate/crotonic acid terpolymers and crotonic acid/vinyl acetate/vinyl neododecanoate terpolymers;
- 5 - polymers derived from maleic, fumaric or itaconic acids or anhydrides with vinyl esters, vinyl ethers, vinyl halides, phenylvinyl derivatives or acrylic acid and esters thereof, such as methyl vinyl ether/monoesterified maleic anhydride copolymers;
- 10 - copolymers of methacrylic acid and of methyl methacrylate;
- copolymers of methacrylic acid and of ethyl acrylate;
- terpolymers of vinylpyrrolidone/acrylic acid/lauryl methacrylate;
- vinyl acetate/crotonic acid copolymers;
- vinyl acetate/crotonic acid/polyethylene glycol terpolymers;
- 15 - sulphopolyesters obtained by condensation of diethylene glycol, cyclohexanedimethanol, isophthalic acid and sulfoisophthalic acid, and mixtures thereof.

67. Use according to any one of Claims 47 to 66, characterized in that the anionic film-forming polymer is chosen from

20 anionic polymers of grafted silicone type comprising a polysiloxane portion and a portion consisting of a non-silicone organic chain, one of the two portions constituting the main chain of the polymer, the other being grafted onto the said main chain.

68. Use according to Claim 67, characterized in that the

25 grafted silicone polymer is chosen from silicone polymers whose structure comprises the unit of formula (III) below:



in which the radicals G_1 , which may be identical or different, represent hydrogen or a C_1 - C_{10} alkyl radical or alternatively a phenyl radical; the radicals G_2 , which may be identical or different, represent a C_1 - C_{10} alkylene group; G_3 represents a polymer residue resulting from the (homo)polymerization of at least one ethylenically unsaturated anionic monomer; G_4 represents a polymer residue resulting from the (homo)polymerization of at least one ethylenically unsaturated hydrophobic monomer; m and n are equal to 0 or 1; a is an integer ranging from 0 to 50; b is an integer which can be between 10 and 350, c is an integer ranging from 0 to 50; with the proviso that one of the parameters a and c is other than 0.

69. Use according to Claim 68, characterized in that the unit of formula (III) has at least one of the following characteristics:

- the radicals G_1 denote a C_1 - C_{10} alkyl radical;
- n is non-zero and the radicals G_2 represent a divalent C_1 - C_3 radical;
- G_3 represents a polymer radical resulting from the (homo)polymerization of at least one monomer such as an ethylenically unsaturated carboxylic acid;
- G_4 represents a polymer radical resulting from the (homo)polymerization of at least one monomer such as a C_1 - C_{10} alkyl (meth)acrylate.

70. Use according to Claim 68 or 69, characterized in that the unit of formula (III) simultaneously has the following characteristics:

- the radicals G_1 denote a methyl radical;
- n is non-zero and the radicals G_2 represent a propylene radical;
- G_3 represents a polymer radical resulting from the (homo)polymerization of at least acrylic acid and/or methacrylic acid;
- G_4 represents a polymer radical resulting from the (homo)polymerization of at least isobutyl or methyl (meth)acrylate.

71. Use according to any one of Claims 47 to 70, characterized in that the cationic film-forming polymer is chosen from quaternary cellulose ether derivatives, copolymers of cellulose with a water-soluble quaternary ammonium monomer, cyclopolymers, cationic polysaccharides, cationic silicone polymers, quaternized or non-quaternized vinylpyrrolidone-dialkylaminoalkyl acrylate or methacrylate copolymers, quaternary polymers of vinylpyrrolidone and of vinylimidazole, and polyaminoamides, and mixtures thereof.

72. Use according to any one of Claims 47 to 71, characterized in that the anionic film-forming polymer is a poly(sodium methacrylate).

73. Use according to any one of Claims 47 to 72, characterized in that the cationic film-forming polymer is a hydroxy(C₁-C₄)alkylcellulose comprising quaternary ammonium groups.

74. Use according to any one of Claims 47 to 73, characterized in that the cationic film-forming polymer is present in the composition in a content ranging from 0.01% to 20% by weight, preferably from 0.01% to 15% by weight and even more preferentially from 0.05% to 5% by weight, relative to the total weight of the composition.

75. Use according to any one of Claims 47 to 74, characterized in that the anionic film-forming polymer is present in the composition in a content ranging from 0.01% to 20% by weight, preferably from 0.05% to 15% by weight and even more preferentially from 0.1% to 7% by weight, relative to the total weight of the composition.

76. Use according to any one of Claims 47 to 75, characterized in that the composition comprises a wax.

77. Use according to Claim 76, characterized in that the wax is chosen from the group formed by beeswax, lanolin wax, Chinese insect waxes, rice wax, carnauba wax, candelilla wax, ouricury wax, cork fibre wax, sugar cane wax, Japan wax, sumach wax, montan wax, microcrystalline waxes, paraffin waxes, ozokerites, ceresin wax, lignite wax, polyethylene waxes and the waxes obtained by Fisher-Tropsch

synthesis, fatty acid esters of glycerides that are solid at 40°C, the waxes obtained by catalytic hydrogenation of animal or plant oils containing linear or branched C₈-C₃₂ fatty chains, silicone waxes and fluoro waxes, and mixtures thereof.

5 78. Use according to Claim 76 or 77, characterized in that the wax is present in a content ranging from 0.1% to 50% by weight, preferably from 0.5% to 40% by weight and better still from 1% to 30% by weight, relative to the total weight of the composition.

10 79. Use according to any one of Claims 47 to 78, characterized in that the fatty phase comprises at least one oil chosen from the group formed by hydrocarbon-based oils, fluoro oils and/or silicone oils of mineral, animal, plant or synthetic origin, alone or as a mixture.

80. Use according to any one of Claims 47 to 79, characterized in that the fatty phase comprises at least one volatile oil.

15 81. Use according to any one of Claims 45 to 80, characterized in that the fatty phase comprises a volatile oil chosen from hydrocarbon-based volatile oils containing from 8 to 16 carbon atoms.

20 82. Use according to Claim 80 or 81, characterized in that the volatile oil is present in a content ranging from 0.1% to 98% by weight and preferably from 1% to 65% by weight, relative to the total weight of the composition.

25 83. Use according to any one of Claims 47 to 82, characterized in that the composition comprises an aqueous phase containing water or a mixture of water and of water-miscible organic solvent.

30 84. Use according to any one of Claims 47 to 83, characterized in that the composition contains at least one additive chosen from dyestuffs, surfactants, thickeners, antioxidants, fillers, preserving agents, fragrances, neutralizers and cosmetic or dermatological active agents, and mixtures thereof.

85. Use according to any one of Claims 47 to 84, characterized in that the composition is in the form of a mascara, a product for the eyebrows or a product for the hair.

86. Cosmetic process for rapidly making up keratin materials, which consists in introducing, into a cosmetic makeup composition comprising a fatty phase:
- (i) a first polymer with a weight-average molecular mass of less than 100 000, comprising a) a polymer skeleton with hydrocarbon-based repeating units containing at least one hetero atom, and optionally b) optionally functionalized pendent and/or terminal fatty chains containing from 6 to 120 carbon atoms, which are linked to these hydrocarbon-based units,
 - (ii) an anionic film-forming polymer,
 - (iii) a cationic film-forming polymer,
- the said anionic and cationic film-forming polymers being different from the said first polymer.

87. Cosmetic process for increasing the adhesion and/or the rapid loading of a cosmetic makeup composition, which consists in introducing into the said composition containing a fatty phase:
- (i) a first polymer with a weight-average molecular mass of less than 100 000, comprising a) a polymer skeleton with hydrocarbon-based repeating units containing at least one hetero atom, and optionally b) optionally functionalized pendent and/or terminal fatty chains containing from 6 to 120 carbon atoms, which are linked to these hydrocarbon-based units,
 - (ii) an anionic film-forming polymer,
 - (iii) a cationic film-forming polymer,
- the said anionic and cationic film-forming polymers being different from the said first polymer.

88. Process according to Claim 86 or 87, characterized in that the average molar mass of the first polymer is less than 50 000.

89. Process according to any one of Claims 86 to 88, characterized in that the units containing a hetero atom of the first polymer are amide groups.

5 90. Process according to any one of Claims 86 to 89, characterized in that the fatty chains represent from 40% to 98% and better still from 50% to 95% of the total number of units containing a hetero atom and of fatty chains.

91. Process according to any one of Claims 86 to 90, characterized in that the fatty chains represent from 50% to 95% of the total number of units containing a hetero atom and of fatty chains.

10 92. Process according to any one of Claims 86 to 91, characterized in that the pendent fatty chains are linked directly to at least one of the said hetero atoms.

93. Cosmetic process for rapidly making up keratin materials, which consists in introducing, into a cosmetic makeup composition comprising a fatty phase:

15 - (i) a first polyamide polymer with a weight-average molecular mass of less than 100 000, comprising a) a polymer skeleton with amide repeating units and b) optionally at least one optionally functionalized pendent fatty chain and/or at least one optionally functionalized terminal chain, containing from

20 6 to 120 carbon atoms, which are linked to these amide units,

- (ii) an anionic film-forming polymer,

- (iii) a cationic film-forming polymer,

the said anionic and cationic film-forming polymers being different from the

25 said first polymer.

94. Cosmetic process for increasing the adhesion and/or the rapid loading of a cosmetic makeup composition, which consists in introducing into the said composition containing a fatty phase:

30 - (i) a first polyamide polymer with a weight-average molecular mass of less than 100 000, comprising a) a polymer skeleton with amide repeating units and b) optionally at least one optionally functionalized pendent fatty chain

and/or at least one optionally functionalized terminal chain, containing from 6 to 120 carbon atoms, which are linked to these amide units,

- (ii) an anionic film-forming polymer,
 - (iii) a cationic film-forming polymer,
- 5 the said anionic and cationic film-forming polymers being different from the said first polymer.

95. Process according to Claim 93 or 94, characterized in that the fatty chains of the first polymer represent from 40% to 98% of the total number of amide units and of fatty chains.

- 10 96. Process according to any one of Claims 93 to 95, characterized in that the fatty chains of the first polymer represent from 50% to 95% of the total number of amide units and of fatty chains.

97. Process according to any one of Claims 93 to 96, characterized in that the pendent fatty chains are linked directly to at least
15 one of the nitrogen atoms of the amide units.

98. Process according to any one of Claims 86 to 97, characterized in that the weight-average molecular mass of the first polymer ranges from 1000 to 100 000, preferably from 1000 to 50 000 and better still from 1000 to 30 000.

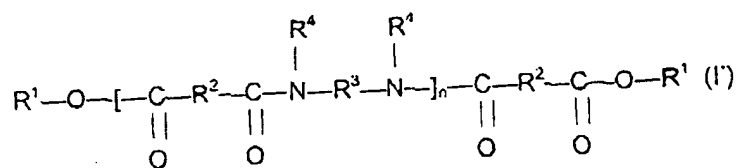
- 20 99. Process according to one of Claims 86 to 98, characterized in that the weight-average molar mass of the first film-forming polymer ranges from 2000 to 20 000 and preferably from 2000 to 10 000.

100. Process according to one of Claims 86 to 99, characterized in that the terminal fatty chain(s) is (are) linked to the
25 skeleton via bonding groups.

101. Process according to Claim 100, characterized in that the bonding groups are ester groups.

102. Process according to any one of Claims 86 to 101, characterized in that the fatty chains contain from 12 to 68 carbon atoms.

- 30 103. Process according to any one of Claims 86 to 102, characterized in that the first polymer is chosen from the polymers of formula (I') below, and mixtures thereof:



- in which n denotes a number of amide units such that the number of ester groups represents from 10% to 50% of the total number of ester and amide groups; R¹ is, independently in each case, an alkyl or alkenyl group containing at least 4 carbon atoms; R² represents, independently in each case, a C₄ to C₄₂ hydrocarbon-based group, on condition that at least 50% of the groups R² represent a C₃₀ to C₄₂ hydrocarbon-based group; R³ represents, independently in each case, an organic group containing at least 2 carbon atoms, hydrogen atoms and optionally one or more oxygen or nitrogen atoms; and R⁴ represents, independently in each case, a hydrogen atom, a C₁ to C₁₀ alkyl group or a direct bond to R³ or another R⁴, such that the nitrogen atom to which R³ and R⁴ are both attached forms part of a heterocyclic structure defined by R⁴-N-R³, with at least 50% of the groups R⁴ representing a hydrogen atom.

104. Process according to Claim 103, characterized in that

R¹ is a C₁₂ to C₂₂ alkyl group.

105. Process according to Claim 103 or 104, characterized

- in that the radicals R² are groups containing from 30 to 42 carbon atoms.

106. Process according to any one of Claims 86 to 105,

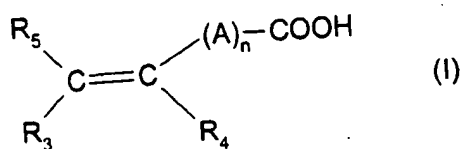
characterized in that the first polymer is present in a content ranging from 0.01% to 10% by weight, preferably ranging from 0.05% to 5% by weight and better still ranging from 0.1% to 3% by weight, relative to the total

- weight of the composition.

107. Process according to any one of Claims 86 to 106,

characterized in that the anionic film-forming polymer is chosen from:

- polymers comprising carboxylic units derived from unsaturated monocarboxylic or dicarboxylic acid monomers of formula (I):



- in which n is an integer from 0 to 10, A denotes a methylene group, optionally connected to the carbon atom of the unsaturated group or to the neighbouring methylene group when n is greater than 1 via a hetero atom such as oxygen or sulphur, R₅ denotes a hydrogen atom or a phenyl or benzyl group, R₃ denotes a hydrogen atom or a lower alkyl or carboxyl group, and R₄ denotes a hydrogen atom, a lower alkyl group or a
- 10 —CH₂-COOH, phenyl or benzyl group,
- polymers comprising units derived from sulphonic acid, such as vinylsulphonic, styrenesulphonic and acrylamidoalkylsulphonic units, and sulphonic polyesters, and
 - mixtures thereof.
- 15 108. Process according to any one of Claims 86 to 107, characterized in that the anionic film-forming polymer is chosen from:
- A) homo- or copolymers of acrylic or methacrylic acid or salts thereof, the sodium salts of copolymers of acrylic acid and of acrylamide, and the sodium salts of polyhydroxycarboxylic acids;
- 20 B) copolymers of acrylic or methacrylic acids with a monoethylenic monomer such as ethylene, styrene, vinyl esters and acrylic or methacrylic acid esters, optionally grafted onto a polyalkylene glycol such as polyethylene glycol; copolymers of this type comprising in their chain an optionally N-alkylated and/or hydroxyalkylated acrylamide unit, copolymers
- 25 of acrylic acid and of C₁-C₄ alkyl methacrylate and terpolymers of vinylpyrrolidone, of acrylic acid and of C₁-C₂₀ alkyl methacrylate;
- C) copolymers derived from crotonic acid, such as those whose chain comprises vinyl acetate or propionate units and optionally other monomers such as allylic or methallylic esters, vinyl ether or vinyl ester of a saturated,
- 30 linear or branched carboxylic acid containing a long hydrocarbon-based

chain such as those comprising at least 5 carbon atoms, it being possible for these polymers to be optionally grafted;

- D) polymers derived from maleic, fumaric or itaconic acids or anhydrides with vinyl esters, vinyl ethers, vinyl halides, phenylvinyl derivatives, acrylic acid and esters thereof; copolymers of maleic, citraconic or itaconic anhydrides and of an allylic or methallylic ester optionally comprising an acrylamide, methacrylamide, α -olefin, acrylic or methacrylic ester, acrylic or methacrylic acid or vinylpyrrolidone group in their chain, the anhydride functions are monoesterified or monoamidated;
- 10 E) polyacrylamides comprising carboxylate groups,
- F) deoxyribonucleic acid;
- G) copolymers of at least one dicarboxylic acid, of at least one diol and of at least one difunctional aromatic monomer bearing a group $-\text{SO}_3\text{M}$ with M representing a hydrogen atom, an ammonium ion NH_4^+ or a metal ion;
- 15 - and mixtures thereof.

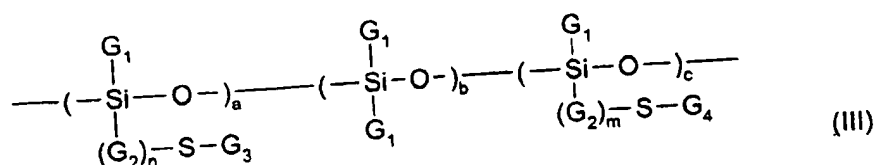
109. Use according to any one of Claims 86 to 108, characterized in that the anionic film-forming polymer is chosen from:

- acrylic or methacrylic acid homopolymers;
- acrylic acid copolymers such as the acrylic acid/ethyl acrylate/N-tert-butylacrylamide terpolymer;
- 20 - copolymers derived from crotonic acid, such as vinyl acetate/vinyl tert-butylbenzoate/crotonic acid terpolymers and crotonic acid/vinyl acetate/vinyl neododecanoate terpolymers;
- polymers derived from maleic, fumaric or itaconic acids or anhydrides with vinyl esters, vinyl ethers, vinyl halides, phenylvinyl derivatives or acrylic acid and esters thereof, such as methyl vinyl ether/monoesterified maleic anhydride copolymers;
- 25 - copolymers of methacrylic acid and of methyl methacrylate;
- copolymers of methacrylic acid and of ethyl acrylate;
- 30 - terpolymers of vinylpyrrolidone/acrylic acid/lauryl methacrylate;
- vinyl acetate/crotonic acid copolymers;
- vinyl acetate/crotonic acid/polyethylene glycol terpolymers;

- sulphopolyesters obtained by condensation of diethylene glycol, cyclohexanedimethanol, isophthalic acid and sulfoisophthalic acid,
- and mixtures thereof.

110. Process according to any one of Claims 86 to 109, characterized in that the anionic film-forming polymer is chosen from anionic polymers of grafted silicone type comprising a polysiloxane portion and a portion consisting of a non-silicone organic chain, one of the two portions constituting the main chain of the polymer, the other being grafted onto the said main chain.

111. Process according to Claim 110, characterized in that the grafted silicone polymer is chosen from silicone polymers whose structure comprises the unit of formula (III) below:



in which the radicals G_1 , which may be identical or different, represent hydrogen or a $\text{C}_1\text{-C}_{10}$ alkyl radical or alternatively a phenyl radical; the radicals G_2 , which may be identical or different, represent a $\text{C}_1\text{-C}_{10}$ alkylene group; G_3 represents a polymer residue resulting from the (homo)polymerization of at least one ethylenically unsaturated anionic monomer; G_4 represents a polymer residue resulting from the (homo)polymerization of at least one ethylenically unsaturated hydrophobic monomer; m and n are equal to 0 or 1; a is an integer ranging from 0 to 50; b is an integer which can be between 10 and 350, c is an integer ranging from 0 to 50; with the proviso that one of the parameters a and c is other than 0.

112. Process according to Claim 111, characterized in that the unit of formula (III) has at least one of the following characteristics:

- the radicals G_1 denote a $\text{C}_1\text{-C}_{10}$ alkyl radical;

radical;
 - n is non-zero and the radicals G_2 represent a divalent C_1-C_3

- 5 (homo)polymerization of at least one monomer such as an ethylenically unsaturated carboxylic acid;
 - G_4 represents a polymer radical resulting from the (homo)polymerization of at least one monomer such as a C_1-C_{10} alkyl (meth)acrylate.

10 113. Process according to Claim 111 or 112, characterized in that the unit of formula (III) simultaneously has the following characteristics:

- the radicals G_1 denote a methyl radical;
- n is non-zero and the radicals G_2 represent a propylene radical;
- 15 - G_3 represents a polymer radical resulting from the (homo)polymerization of at least acrylic acid and/or methacrylic acid;
- G_4 represents a polymer radical resulting from the (homo)polymerization of at least isobutyl or methyl (meth)acrylate.

20 114. Process according to any one of Claims 86 to 113, characterized in that the cationic film-forming polymer is chosen from quaternary cellulose ether derivatives, copolymers of cellulose with a water-soluble quaternary ammonium monomer, cyclopolymers, cationic polysaccharides, cationic silicone polymers, quaternized or non-quaternized vinylpyrrolidone-dialkylaminoalkyl acrylate or methacrylate
 25 copolymers, quaternary polymers of vinylpyrrolidone and of vinylimidazole, and polyaminoamides, and mixtures thereof.

115. Process according to any one of Claims 86 to 114, characterized in that the anionic film-forming polymer is a poly(sodium methacrylate).

30 116. Process according to any one of Claims 86 to 115, characterized in that the cationic film-forming polymer is a hydroxy(C_1-C_4)alkylcellulose comprising quaternary ammonium groups.

117. Process according to any one of Claims 86 to 116, characterized in that the cationic film-forming polymer is present in a content ranging from 0.01% to 20% by weight; preferably from 0.01% to 15% by weight and even more preferentially from 0.05% to 5% by weight, relative to the total weight of the composition.

118. Process according to any one of Claims 86 to 117, characterized in that the anionic film-forming polymer is present in a content ranging from 0.01% to 20% by weight, preferably from 0.05% to 15% by weight and even more preferentially from 0.1% to 7% by weight, relative to the total weight of the composition.

119. Process according to any one of Claims 86 to 118, characterized in that the fatty phase comprises at least one wax.

120. Process according to Claim 119, characterized in that the wax is chosen from the group formed by beeswax, lanolin wax, Chinese insect waxes, rice wax, carnauba wax, candelilla wax, ouricury wax, cork fibre wax, sugar cane wax, Japan wax, sumach wax, montan wax, microcrystalline waxes, paraffin waxes, ozokerites, ceresin wax, lignite wax, polyethylene waxes and the waxes obtained by Fisher-Tropsch synthesis, fatty acid esters of glycerides that are solid at 40°C, the waxes obtained by catalytic hydrogenation of animal or plant oils containing linear or branched C₈-C₃₂ fatty chains, silicone waxes and fluoro waxes, and mixtures thereof.

121. Process according to Claim 119 or 120, characterized in that the wax is present in a content ranging from 0.1% to 50% by weight, preferably from 0.5% to 40% by weight and better still from 1% to 30% by weight, relative to the total weight of the composition.

122. Process according to any one of Claims 86 to 121, characterized in that the fatty phase comprises at least one oil chosen from the group formed by hydrocarbon-based oils, fluoro oils and/or silicone oils of mineral, animal, plant or synthetic origin, alone or as a mixture.

123. Process according to any one of Claims 86 to 122, characterized in that the fatty phase comprises at least one volatile oil.

124. Process according to any one of Claims 86 to 123, characterized in that the fatty phase comprises a volatile oil chosen from hydrocarbon-based volatile oils containing from 8 to 16 carbon atoms.

125. Process according to Claim 123 or 124, characterized
5 in that the volatile oil is present in a content ranging from 0.1% to 98% by weight and preferably from 1% to 65% by weight, relative to the total weight of the composition.

126. Process according to any one of Claims 86 to 125,
characterized in that the composition comprises an aqueous phase
10 containing water or a mixture of water and of water-miscible organic solvent.

127. Process according to any one of Claims 86 to 126,
characterized in that the composition contains at least one additive chosen
from dyestuffs, surfactants, thickeners, antioxidants, fillers, preserving
15 agents, fragrances, neutralizers and cosmetic or dermatological active agents, and mixtures thereof.

128. Process according to any one of Claims 86 to 127,
characterized in that the composition is in the form of a mascara, a product
for the eyebrows or a product for the hair.

PENDING CLAIMS
Application No. 10/459,636
Attorney Docket No. 05725.1336-00000
Filed: June 12, 2003

1. A composition in the form of an emulsion comprising at least one liquid fatty phase which comprises:
 - (i) at least one structuring polymer comprising:
a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom; and
 - (ii) at least one sunscreen agent.
2. The composition according to claim 1, wherein said at least one structuring polymer further comprises at least one of:
 - at least one terminal fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one terminal fatty chain is bonded to said polymer skeleton via at least one linking group; and
 - at least one pendant fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one pendant fatty chain is bonded to said polymer skeleton via at least one linking group.
3. The composition according to claim 2, wherein said alkyl chains and said alkenyl chains each comprise at least four carbon atoms.
4. The composition according to claim 3, wherein said alkyl chains and said alkenyl chains each comprise from 8 to 120 carbon atoms.
5. The composition according to claim 4, wherein said alkyl chains and said alkenyl chains each comprise from 12 to 68 carbon atoms.
6. The composition according to claim 2, wherein said at least one linking group is chosen from single bonds and urea, urethane, thiourea, thiourethane, thioether, thioester, ester, ether and amine groups.
7. The composition according to claim 6, wherein said at least one linking group is an ester group present in a proportion ranging from 15% to 40% of the total number of all ester and hetero atom groups in the at least one structuring polymer.

8. The composition according to claim 7, wherein said at least one linking group is an ester group present in a proportion ranging from 20% to 35% of the total number of all ester and hetero atom groups in the at least one structuring polymer.
9. The composition according to claim 2, wherein said at least one terminal fatty chain is functionalized.
10. The composition according to claim 2, wherein said at least one pendant fatty chain is functionalized.
11. The composition according to claim 2, wherein in said at least one structuring polymer, the percentage of the total number of fatty chains ranges from 40% to 98% relative to the total number of all repeating units and fatty chains in the at least one structuring polymer.
12. The composition according to claim 11, wherein in said at least one structuring polymer, the percentage of the total number of fatty chains ranges from 50% to 95% relative to the total number of all repeating units and fatty chains in the at least one structuring polymer.
13. The composition according to claim 1, wherein said at least one structuring polymer has a weight-average molecular mass of less than 100,000.
14. The composition according to claim 13, wherein said at least one structuring polymer has a weight-average molecular mass of less than 50,000.
15. The composition according to claim 14, wherein said at least one structuring polymer has a weight-average molecular mass ranging from 1000 to 30,000.
16. The composition according to claim 15, wherein said at least one structuring polymer has a weight-average molecular mass ranging from 2000 to 20,000.
17. The composition according to claim 16, wherein said at least one structuring polymer has a weight-average molecular mass ranging from 2000 to 10,000.
18. The composition according to claim 1, wherein said at least one hydrocarbon based repeating unit comprises from 2 to 80 carbon atoms.
19. The composition according to claim 18, wherein said at least one hydrocarbon based repeating unit comprises from 2 to 60 carbon atoms.
20. The composition according to claim 1, wherein said at least one hydrocarbon based repeating unit is chosen from saturated and unsaturated

hydrocarbon-based units which are chosen from linear hydrocarbon-based repeating units, branched hydrocarbon-based repeating units and cyclic hydrocarbon-based repeating units.

21. The composition according to claim 1, wherein said at least one hetero atom of said at least one hydrocarbon-based repeating unit is chosen from nitrogen, sulphur, and phosphorus.

22. The composition according to claim 21, wherein said at least one hetero atom is a nitrogen atom.

23. The composition according to claim 21, wherein said at least one hetero atom is combined with at least one atom chosen from oxygen and carbon to form a hetero atom group.

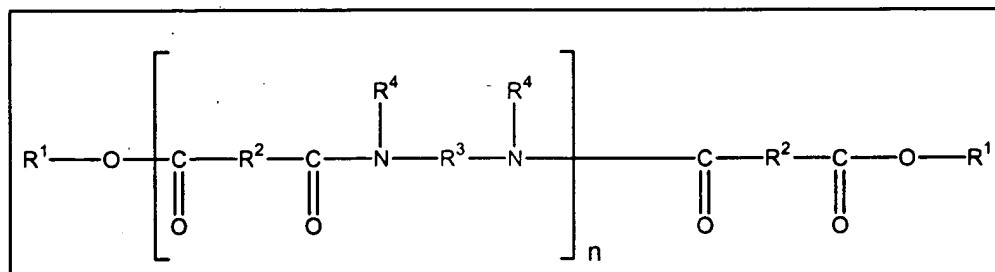
24. The composition according to claim 23, wherein said at least one hetero atom group further comprises a carbonyl group.

25. The composition according to claim 23, wherein said at least one hetero atom group is chosen from amide groups, carbamate groups, and urea groups.

26. The composition according to claim 25, wherein said at least one hetero atom group is an amide group and said polymer skeleton is a polyamide skeleton.

27. The composition according to claim 25, wherein said at least one hetero atom group is chosen from carbamate groups and urea groups and said polymer skeleton is chosen from a polyurethane skeleton, a polyurea skeleton and a polyurethane-polyurea skeleton.

28. The composition according to claim 1, wherein said at least one



structuring polymer is chosen from polyamide polymers of formula (I):

in which:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;
- R^1 , which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;
- R^2 , which are identical or different, are each chosen from C_4 to C_{42} hydrocarbon-based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;
- R^3 , which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms, with the proviso that R^3 comprises at least 2 carbon atoms; and
- R^4 , which are identical or different, are each chosen from hydrogen atoms, C_1 to C_{10} alkyl groups and a direct bond to at least one group chosen from R^3 and another R^4 such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms.

29. The composition according to claim 28, wherein in said formula (I), n is an integer ranging from 1 to 5.

30. The composition according to claim 29, wherein in said formula (I), n is an integer ranging from 3 to 5.

31. The composition according to claim 28, wherein in said formula (I), said alkyl groups of R^1 and said alkenyl groups of R^1 each independently comprise from 4 to 24 carbon atoms.

32. The composition according to claim 31, wherein in said formula (I), R^1 , which are identical or different, are each chosen from C_{12} to C_{22} alkyl groups.

33. The composition according to claim 32, wherein in said formula (I), R^1 , which are identical or different, are each chosen from C_{16} to C_{22} alkyl groups.

34. The composition according to claim 28, wherein in said formula (I), R^2 , which are identical or different, are each chosen from C_{10} to C_{42} hydrocarbon based

groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon based groups.

35. The composition according to claim 34, wherein at least 75% of all R^2 , which are identical or different, are chosen from C_{30} to C_{42} hydrocarbon based groups.

36. The composition according to claim 28, wherein in said formula (I), R^3 , which can be identical or different, are each chosen from C_2 to C_{36} hydrocarbon-based groups and polyoxyalkylene groups.

37. The composition according to claim 36, wherein R^3 , which can be identical or different, are each chosen from C_2 to C_{12} hydrocarbon-based groups.

38. The composition according to claim 37, wherein in said formula (I), R^4 , which can be identical or different, are each chosen from hydrogen atoms.

39. The composition according to claim 28, wherein said at least one polymer, of formula (I) is in the form of a mixture of polymers, wherein said mixture optionally also comprises a compound of formula (I) wherein n is equal to zero.

40. The composition according to claim 1, wherein said at least one structuring polymer has a softening point greater than 50 °C.

41. The composition according to claim 40, wherein said at least one structuring polymer has a softening point ranging from 65 °C to 190 °C.

42. The composition according to claim 41, wherein said at least one structuring polymer has a softening point ranging from 70 °C to 130 °C.

43. The composition according to claim 42, wherein said at least one structuring polymer has a softening point ranging from 80 °C to 105 °C.

44. The composition according to claim 1, wherein said at least one structuring polymer is present in the composition in an amount ranging from 0.5% to 80% by weight relative to the total weight of the composition.

45. The composition according to claim 44, wherein said at least one structuring polymer is present in the composition in an amount ranging from 2% to 60% by weight relative to the total weight of the composition.

46. The composition according to claim 45, wherein said at least one structuring polymer is present in the composition in an amount ranging from 5% to 40% by weight relative to the total weight of the composition.

47. The composition according to claim 1, wherein said at least one liquid fatty phase of the composition comprises at least one oil.

48. The composition according to claim 47, wherein said at least one oil is chosen from at least one polar oil and at least one apolar oil.

49. The composition according to claim 48, wherein said at least one polar oil is chosen from:

- hydrocarbon-based plant oils with a high content of triglycerides comprising fatty acid esters of glycerol in which the fatty acids comprise chains having from 4 to 24 carbon atoms, said chains optionally being chosen from linear and branched, and saturated and unsaturated chains;

- synthetic oils or esters of formula R_5COOR_6 in which R_5 is chosen from linear and branched fatty acid residues comprising from 1 to 40 carbon atoms and $R_5+R_6 \geq 10$;

- synthetic ethers containing from 10 to 40 carbon atoms;

- C_8 to C_{26} fatty alcohols; and

- C_8 to C_{26} fatty acids.

50. The composition according to claim 48, wherein said at least one apolar oil is chosen from:

- silicone oils chosen from volatile and non-volatile, linear and cyclic polydimethylsiloxanes that are liquid at room temperature;

- polydimethylsiloxanes comprising alkyl or alkoxy groups which are pendant and/or at the end of the silicone chain, the groups each containing from 2 to 24 carbon atoms;

- phenylsilicones; and

- hydrocarbons chosen from linear and branched, volatile and non-volatile hydrocarbons of synthetic and mineral origin.

51. The composition according to claim 1, wherein said at least one liquid fatty phase comprises at least one non-volatile oil.

52. The composition according to claim 51, wherein said at least one non-volatile oil is chosen from hydrocarbon-based oils of mineral, plant and synthetic origin, synthetic esters and ethers, and silicone oils.

53. The composition according to claim I, wherein said at least one liquid fatty phase is present in an amount ranging from 1% to 99% by weight relative to the total weight of the composition.

54. The composition according to claim 53, wherein said at least one liquid fatty phase is present in an amount ranging from 5% to 95.5% by weight relative to the total weight of the composition.

55. The composition according to claim 53, wherein said at least one liquid fatty phase is present in an amount ranging from 10% to 80% by weight relative to the total weight of the composition.

56. The composition according to claim 53, wherein said at least one liquid fatty phase is present in an amount ranging from 20% to 75% by weight relative to the total weight of the composition.

57. The composition according to claim 1, wherein said at least one liquid fatty phase comprises at least one volatile solvent chosen from hydrocarbon-based solvents and silicone solvents optionally comprising alkyl or alkoxy groups that are pendant or at the end of a silicone chain.

58. The composition according to claim 57, wherein said at least one volatile solvent is present in an amount up to 95.5% relative to the total weight of the composition.

59. The composition according to claim 58, wherein said at least one volatile solvent is present in an amount ranging from 2% to 75% relative to the total weight of the composition.

60. The composition according to claim 59, wherein said at least one volatile solvent is present in an amount ranging from 10% to 45% relative to the total weight of the composition.

61. The composition according to claim I, wherein said composition further comprises at least one additional fatty material.

62. The composition according to claim 61, wherein said at least one additional fatty material is chosen from gums, fatty materials pasty at ambient temperature, and resins.

63. The composition according to claim 1 further comprising at least one film forming polymer.

64. The composition according to claim 1, wherein said film-forming polymer is present in the composition in an amount ranging from 0.1% to 20% by weight relative to the total weight of the composition.

65. The composition according to claim 1, wherein the composition is in a form chosen from a fluid simple emulsion, rigid simple emulsion, fluid multiple emulsion, and rigid multiple emulsion.

66. The composition according to claim 1, wherein said composition is a solid.

67. The composition according to claim 66, wherein said composition is a solid chosen from molded and poured sticks.

68. A composition in the form of an emulsion comprising at least one liquid fatty phase which comprises:

(i) at least one structuring polymer, wherein said at least one structuring polymer is at least one polyamide polymer comprising:

a polymer skeleton which comprises at least one amide repeating unit; and

(ii) at least one sunscreen agent.

69. The composition according to claim 68, wherein said at least one polyamide polymer further comprises at least one of:

at least one terminal fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one terminal fatty chain is bonded to said polymer skeleton via at least one linking group; and

at least one pendant fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one pendant fatty chain is bonded to said polymer skeleton via at least one linking group.

70. The composition according to claim 69, wherein said alkyl chains and said alkenyl chains each comprise at least four carbon atoms.

71. The composition according to claim 70, wherein said alkyl chains and said alkenyl chains each comprise from 8 to 120 carbon atoms.

72. The composition according to claim 71, wherein said alkyl chains and said alkenyl chains each comprise from 12 to 68 carbon atoms.

73. The composition according to claim 69, wherein said at least one linking group is chosen from single bonds and urea, urethane, thiourea, thiourethane, thioether, thioester, ester, ether and amine groups.

74. The composition according to claim 73, wherein said at least one linking group is an ester group present in a proportion ranging from 15% to 40% of the total number of all ester and amide groups in the at least one polyamide polymer.

75. The composition according to claim 74, wherein said at least one linking group is an ester group present in a proportion ranging from 20% to 35% of the total number of all ester and amide groups in the at least one polyamide polymer.

76. The composition according to claim 69, wherein said at least one terminal fatty chain is functionalized.

77. The composition according to claim 69, wherein said at least one pendant fatty chain is functionalized.

78. The composition according to claim 69, wherein in said at least one polyamide polymer, the percentage of the total number of fatty chains ranges from 40% to 98% relative to the total number of all amide units and fatty chains in the at least one polyamide polymer.

79. The composition according to claim 78, wherein in said at least one polyamide polymer, the percentage of the total number of fatty chains ranges from 50% to 95% relative to the total number of all amide units and fatty chains in the at least one polyamide polymer.

80. The composition according to claim 68, wherein said at least one polyamide polymer has a weight-average molecular mass of less than 100,000.

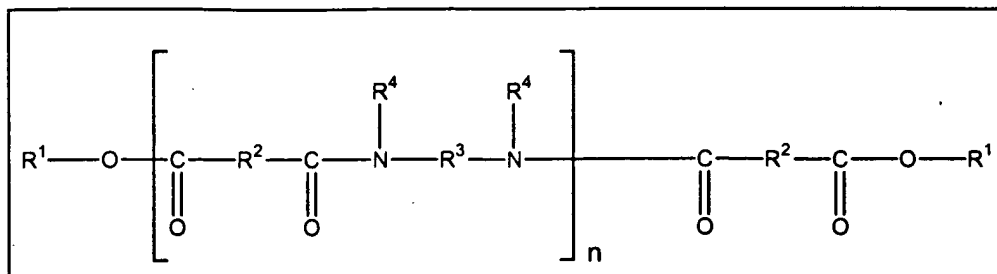
81. The composition according to claim 80, wherein said at least one polyamide polymer has a weight-average molecular mass of less than 50,000.

82. The composition according to claim 81, wherein said at least one polyamide polymer has a weight-average molecular mass ranging from 1000 to 30,000.

83. The composition according to claim 82, wherein said at least one polyamide polymer has a weight-average molecular mass ranging from 2000 to 20,000.

84. The composition according to claim 83, wherein said at least one polyamide polymer has a weight-average molecular mass ranging from 2000 to 10,000.

85. The composition according to claim 68, wherein said at least one polyamide polymer is chosen from polyamide polymers of formula (I):



in which:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;
- R¹, which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;
- R², which are identical or different, are each chosen from C₄ to C₄₂ hydrocarbon-based groups with the proviso that at least 50% of all R² are chosen from C₃₀ to C₄₂ hydrocarbon-based groups;
- R³, which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms with the proviso that R³ comprises at least 2 carbon atoms; and
- R⁴, which are identical or different, are each chosen from hydrogen atoms, C₁ to C₁₀ alkyl groups and a direct bond to at least one group chosen from R³ and another R⁴ such that when said at least one group is chosen from another R⁴, the nitrogen atom to which both R³ and R⁴ are bonded forms part of a heterocyclic structure defined in part by R⁴-N-R³, with the proviso that at least 50% of all R⁴ are chosen from hydrogen atoms.

86. The composition according to claim 85, wherein in said formula (I), n is an integer ranging from 1 to 5.

87. The composition according to claim 86, wherein in said formula (I), n is an integer ranging from 3 to 5.

88. The composition according to claim 85, wherein in said formula (I), said alkyl groups of R' and said alkenyl groups of R¹ each independently comprise from 4 to 24 carbon atoms.

89. The composition according to claim 88, wherein in said formula (I), R¹, which are identical or different, are each chosen from C₁₂ to C₂₂ alkyl groups.

90. The composition according to claim 89, wherein in said formula (I), R¹, which are identical or different, are each chosen from C₁₆ to C₂₂ alkyl groups.

91. The composition according to claim 85, wherein in said formula (I), R², which are identical or different, are each chosen from C₁₀ to C₄₂ hydrocarbon based groups with the proviso that at least 50% of all R² are chosen from C₃₀ to C₄₂ hydrocarbon based groups.

92. The composition according to claim 91, wherein at least 75% of all R², which are identical or different, are chosen from C₃₀ to C₄₂ hydrocarbon based groups.

93. The composition according to claim 92, wherein in said formula (I), R³, which can be identical or different, are each chosen from C₂ to C₃₆ hydrocarbon-based groups and polyoxyalkylene groups.

94. The composition according to claim 93, wherein R³, which can be identical or different, are each chosen from C₂ to C₁₂ hydrocarbon-based groups.

95. The composition according to claim 68, wherein in said formula (I), R⁴, which can be identical or different, are each chosen from hydrogen atoms.

96. The composition according to claim 68, wherein said at least one polymer of formula (I) is in the form of a mixture of polymers, wherein said mixture optionally also comprises a compound of formula (I) wherein n is equal to zero.

97. The composition according to claim 68, wherein said at least one polyamide polymer is chosen from polymers resulting from at least one polycondensation reaction between at least one dicarboxylic acid comprising at least 32 carbon atoms and at least one amine chosen from diamines comprising at least 2 carbon atoms and triamines comprising at least 2 carbon atoms.

98. The composition according to claim 68, wherein said at least one dicarboxylic acid comprises from 32 to 44 carbon atoms and said at least one amine comprises from 2 to 36 carbon atoms.

99. The composition according to claim 98, wherein said at least one dicarboxylic acid is chosen from dimers of at least one fatty acid comprising at least 16 carbon atoms.

100. The composition according to claim 99, wherein said at least one fatty acid is chosen from oleic acid, linoleic acid and linolenic acid.

101. The composition according to claim 100, wherein said at least one amine is chosen from ethylenediamine, hexylenediamine, hexamethylenediamine, phenylenediamine and ethylenetriamine.

102. The composition according to claim 68, wherein said at least one polyamide polymer is chosen from polymers comprising at least one terminal carboxylic acid group.

103. The composition according to claim 102, wherein said at least one terminal carboxylic acid group is esterified with at least one alcohol chosen from monoalcohols comprising at least 4 carbon atoms.

104. The composition according to claim 102, wherein said at least one polyamide polymer is chosen from:

- polymers chosen from mixtures of copolymers derived from monomers of (i) C₃₆ diacids and (ii) ethylenediamine, and having a weight-average molecular mass of about 6000;

- polyamide polymers resulting from the condensation of at least one aliphatic dicarboxylic acid and at least one diamine, the carbonyl and amine groups being condensed via an amide bond; and

- polyamide resins from vegetable sources.

105. The composition according to claim 68, wherein said at least one polyamide polymer has a softening point greater than 50 °C.

106. The composition according to claim 105, wherein said at least one polyamide polymer has a softening point ranging from 65°C to 190°C.

107. The composition according to claim 106, wherein said at least one polyamide polymer has a softening point ranging from 70°C to 130°C.

108. The composition according to claim 107, wherein said at least one polyamide polymer has a softening point ranging from 80°C to 105°C.

109. The composition according to claim 104, wherein said at least one polyamide polymer is present in the composition in an amount ranging from 0.5% to 80% by weight relative to the total weight of the composition.

110. The composition according to claim 109, wherein said at least one polyamide polymer is present in the composition in an amount ranging from 2% to 60% by weight relative to the total weight of the composition.

111. The composition according to claim 110, wherein said at least one polyamide polymer is present in the composition in an amount ranging from 5% to 40% by weight relative to the total weight of the composition.

112. The composition according to claim 68, wherein said at least one liquid fatty phase of the composition comprises at least one oil.

113. The composition according to claim 112, wherein said at least one oil is chosen from at least one polar oil and at least one apolar oil.

114. The composition according to claim 113, wherein said at least one polar oil is chosen from:

- hydrocarbon-based plant oils with a high content of triglycerides comprising fatty acid esters of glycerol in which the fatty acids comprise chains having from 4 to 24 carbon atoms, said chains optionally being chosen from linear and branched, and saturated and unsaturated chains;

- synthetic oils or esters of formula R_5COOR_6 in which R_5 is chosen from linear and branched fatty acid residues comprising from 1 to 40 carbon atoms and $R_5 + R_6 \geq 10$;

- synthetic ethers containing from 10 to 40 carbon atoms;

- C_8 to C_{26} fatty alcohols; and

- C_8 to C_{26} fatty acids.

115. The composition according to claim 113, wherein said at least one apolar oil is chosen from:

- silicone oils chosen from volatile and non-volatile, linear and cyclic polydimethylsiloxanes that are liquid at room temperature;

- polydimethylsiloxanes comprising alkyl or alkoxy groups which are pendant and/or at the end of the silicone chain, the groups each containing from 2 to 24 carbon atoms;

- phenylsilicones; and

- hydrocarbons chosen from linear and branched, volatile and non-volatile hydrocarbons of synthetic and mineral origin.

116. The composition according to claim 112, wherein said at least one liquid fatty phase comprises at least one non-volatile oil.

117. The composition according to claim 116, wherein said at least one non-volatile oil is chosen from hydrocarbon-based oils of mineral, plant and synthetic origin, synthetic esters and ethers, and silicone oils.

118. The composition according to claim 117, wherein said at least one liquid fatty phase is present in an amount ranging from 1% to 99% by weight relative to the total weight of the composition.

119. The composition according to claim 118, wherein said at least one liquid fatty phase is present in an amount ranging from 5% to 95.5% by weight relative to the total weight of the composition.

120. The composition according to claim 119, wherein said at least one liquid fatty phase is present in an amount ranging from 10% to 80% by weight relative to the total weight of the composition.

121. The composition according to claim 120, wherein said at least one liquid fatty phase is present in an amount ranging from 20% to 75% by weight relative to the total weight of the composition.

122. The composition according to claim 112, wherein said at least one liquid fatty phase comprises at least one volatile solvent chosen from hydrocarbon-based solvents and silicone solvents optionally comprising alkyl or alkoxy groups that are pendant or at the end of a silicone chain.

123. The composition according to claim 122, wherein said at least one volatile solvent is present in an amount up to 95.5% relative to the total weight of the composition.

124. The composition according to claim 123, wherein said at least one volatile solvent is present in an amount ranging from 2% to 75% relative to the total weight of the composition.

125. The composition according to claim 124, wherein said at least one volatile solvent is present in an amount ranging from 10% to 45% relative to the total weight of the composition.

126. The composition according to claim 112, wherein said composition further comprises at least one additional fatty material.

127. The composition according to claim 126, wherein said at least one additional fatty material is chosen from gums, fatty materials pasty at ambient temperature, and resins.

128. The composition according to claim 68, wherein the composition is in a form chosen from a fluid simple emulsion, rigid simple emulsion, fluid multiple emulsion, and rigid multiple emulsion.

129. A method for providing solar protection to a keratinous material comprising applying a composition according to claim 1 to said keratinous material.

130. A method for providing solar protection to a keratinous material comprising applying a composition according to claim 83 to said keratinous material.

131. A foundation, mascara, eye liner, concealer, lipstick, blush for cheeks or eyelids, body makeup, sun screen, deodorant, colorant for skin or hair, skin care formula, shampoo, after shampoo treatment, or makeup removing product comprising:

at least one liquid fatty phase in said foundation, mascara, eye liner, concealer, lipstick, blush for cheeks or eyelids, body makeup, sun screen, deodorant, colorant for skin or hair, skin care formula, shampoo, after shampoo treatment, or makeup removing product which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom; and

(ii) at least one sunscreen agent.

132. A make-up and/or care and/or treatment composition for keratinous fibers comprising:

at least one liquid fatty phase in said composition which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom; and

(ii) at least one sunscreen agent.

133. A treatment, care or make-up composition for keratinous fibers comprising a structured composition containing at least one liquid fatty phase in said treatment, care or make-up composition structured with at least one structuring polymer comprising a polymer skeleton comprising at least one hydrocarbon-based repeating unit comprising at least one hetero atom, at least one sunscreen agent, and at least one coloring agent.

134. A method for care, make up, or treatment of a keratin material chosen from lips, skin, and keratinous fibers, comprising the application to said keratin material of a cosmetic composition comprising:

at least one liquid fatty phase which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom; and

(ii) at least one sunscreen agent.

134. A method for making a cosmetic composition in the form of a physiologically acceptable composition comprising including in said composition at least one liquid fatty phase which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom; and

(ii) at least one sunscreen agent.

PENDING CLAIMS
Application No. 10/618,315
Attorney Docket No. 05725.1337-00000
Filed: July 11, 2003

1. A composition in the form of an emulsion comprising at least one liquid fatty phase which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom;

(ii) at least one sunscreen agent;

(iii) a silicone elastomer powder comprising a silicone elastomer core coated with a silicone resin; and

(iv) a swelling agent for said powder.

2. The composition according to claim 1, wherein said at least one structuring polymer further comprises at least one of:

at least one terminal fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one terminal fatty chain is bonded to said polymer skeleton via at least one linking group; and

at least one pendant fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one pendant fatty chain is bonded to said polymer skeleton via at least one linking group.

3. The composition according to claim 2, wherein said alkyl chains and said alkenyl chains each comprise at least four carbon atoms.

4. The composition according to claim 3, wherein said alkyl chains and said alkenyl chains each comprise from 8 to 120 carbon atoms.

5. The composition according to claim 4, wherein said alkyl chains and said alkenyl chains each comprise from 12 to 68 carbon atoms.
6. The composition according to claim 2, wherein said at least one linking group is chosen from single bonds and urea, urethane, thiourea, thiourethane, thioether, thioester, ester, ether and amine groups.
7. The composition according to claim 6, wherein said at least one linking group is an ester group present in a proportion ranging from 15% to 40% of the total number of all ester and hetero atom groups in the at least one structuring polymer.
8. The composition according to claim 7, wherein said at least one linking group is an ester group present in a proportion ranging from 20% to 35% of the total number of all ester and hetero atom groups in the at least one structuring polymer.
9. The composition according to claim 2, wherein said at least one terminal fatty chain is functionalized.
10. The composition according to claim 2, wherein said at least one pendant fatty chain is functionalized.
11. The composition according to claim 2, wherein in said at least one structuring polymer, the percentage of the total number of fatty chains ranges from 40% to 98% relative to the total number of all repeating units and fatty chains in the at least one structuring polymer.
12. The composition according to claim 11, wherein in said at least one structuring polymer, the percentage of the total number of fatty chains ranges from 50% to 95% relative to the total number of all repeating units and fatty chains in the at least one structuring polymer.

13. The composition according to claim 1, wherein said at least one structuring polymer has a weight-average molecular mass of less than 100,000.
14. The composition according to claim 13, wherein said at least one structuring polymer has a weight-average molecular mass of less than 50,000.
15. The composition according to claim 14, wherein said at least one structuring polymer has a weight-average molecular mass ranging from 1000 to 30,000.
16. The composition according to claim 15, wherein said at least one structuring polymer has a weight-average molecular mass ranging from 2000 to 20,000.
17. The composition according to claim 16, wherein said at least one structuring polymer has a weight-average molecular mass ranging from 2000 to 10,000.
18. The composition according to claim 1, wherein said at least one hydrocarbon based repeating unit comprises from 2 to 80 carbon atoms.
19. The composition according to claim 18, wherein said at least one hydrocarbon based repeating unit comprises from 2 to 60 carbon atoms.
20. The composition according to claim 1, wherein said at least one hydrocarbon based repeating unit is chosen from saturated and unsaturated hydrocarbon-based units which are chosen from linear hydrocarbon-based repeating units, branched hydrocarbon-based repeating units and cyclic hydrocarbon-based repeating units.
21. The composition according to claim 1, wherein said at least one hetero atom of said at least one hydrocarbon-based repeating unit is chosen from nitrogen, sulphur, and phosphorus.

22. The composition according to claim 21, wherein said at least one hetero atom is a nitrogen atom.

23. The composition according to claim 21, wherein said at least one hetero atom is combined with at least one atom chosen from oxygen and carbon to form a hetero atom group.

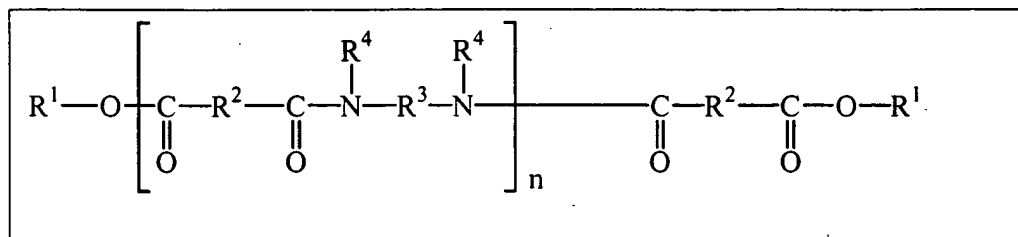
24. The composition according to claim 23, wherein said at least one hetero atom group further comprises a carbonyl group.

25. The composition according to claim 23, wherein said at least one hetero atom group is chosen from amide groups, carbamate groups, and urea groups.

26. The composition according to claim 25, wherein said at least one hetero atom group is an amide group and said polymer skeleton is a polyamide skeleton.

27. The composition according to claim 25, wherein said at least one hetero atom group is chosen from carbamate groups and urea groups and said polymer skeleton is chosen from a polyurethane skeleton, a polyurea skeleton and a polyurethane-polyurea skeleton.

28. The composition according to claim 1, wherein said at least one structuring polymer is chosen from polyamide



polymers of formula (I):

in which:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;

- R^1 , which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;

- R^2 , which are identical or different, are each chosen from C_4 to C_{42} hydrocarbon-based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;

- R^3 , which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms, with the proviso that R^3 comprises at least 2 carbon atoms; and

- R^4 , which are identical or different, are each chosen from hydrogen atoms, C_1 to C_{10} alkyl groups and a direct bond to at least one group chosen from R^3 and another R^4 such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms.

29. The composition according to claim 28, wherein in said formula (I), n is an integer ranging from 1 to 5.

30. The composition according to claim 29, wherein in said formula (I), n is an integer ranging from 3 to 5.

31. The composition according to claim 28, wherein in said formula (I), said alkyl groups of R^1 and said alkenyl groups of R^1 each independently comprise from 4 to 24 carbon atoms.

32. The composition according to claim 31, wherein in said formula (I), R^1 , which are identical or different, are each chosen from C_{12} to C_{22} alkyl groups.

33. The composition according to claim 32, wherein in said formula (I), R^1 , which are identical or different, are each chosen from C_{16} to C_{22} alkyl groups.

34. The composition according to claim 28, wherein in said formula (I), R^2 , which are identical or different, are each chosen from C_{10} to C_{42} hydrocarbon based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon based groups.

35. The composition according to claim 34, wherein at least 75% of all R^2 , which are identical or different, are chosen from C_{30} to C_{42} hydrocarbon based groups.

36. The composition according to claim 28, wherein in said formula (I), R^3 , which can be identical or different, are each chosen from C_2 to C_{36} hydrocarbon-based groups and polyoxyalkylene groups.

37. The composition according to claim 36, wherein R^3 , which can be identical or different, are each chosen from C_2 to C_{12} hydrocarbon-based groups.

38. The composition according to claim 37, wherein in said formula (I), R^4 , which can be identical or different, are each chosen from hydrogen atoms.

39. The composition according to claim 28, wherein said at least one polymer of formula (I) is in the form of a mixture of polymers, wherein said mixture optionally also comprises a compound of formula (I) wherein n is equal to zero.

40. The composition according to claim 1, wherein said at least one structuring polymer has a softening point greater than 50 °C.
41. The composition according to claim 40, wherein said at least one structuring polymer has a softening point ranging from 65 °C to 190 °C.
42. The composition according to claim 41, wherein said at least one structuring polymer has a softening point ranging from 70 °C to 130 °C.
43. The composition according to claim 42, wherein said at least one structuring polymer has a softening point ranging from 80 °C to 105 °C.
44. The composition according to claim 1, wherein said at least one structuring polymer is present in the composition in an amount ranging from 0.5% to 80% by weight relative to the total weight of the composition.
45. The composition according to claim 44, wherein said at least one structuring polymer is present in the composition in an amount ranging from 2% to 60% by weight relative to the total weight of the composition.
46. The composition according to claim 45, wherein said at least one structuring polymer is present in the composition in an amount ranging from 5% to 40% by weight relative to the total weight of the composition.
46. The composition according to claim 1, wherein said at least one liquid fatty phase of the composition comprises at least one oil.
47. The composition according to claim 46, wherein said at least one oil is chosen from at least one polar oil and at least one apolar oil.
48. The composition according to claim 47, wherein said at least one polar oil is chosen from:

- hydrocarbon-based plant oils with a high content of triglycerides comprising fatty acid esters of glycerol in which the fatty acids comprise chains having from 4 to 24 carbon atoms, said chains optionally being chosen from linear and branched, and saturated and unsaturated chains;

- synthetic oils or esters of formula R_5COOR_6 in which R_5 is chosen from linear and branched fatty acid residues comprising from 1 to 40 carbon atoms and $R_5 + R_6 > 10$;

- synthetic ethers containing from 10 to 40 carbon atoms;

- C_8 to C_{26} fatty alcohols; and

- C_8 to C_{26} fatty acids.

49. The composition according to claim 47, wherein said at least one apolar oil is chosen from:

- silicone oils chosen from volatile and non-volatile, linear and cyclic polydimethylsiloxanes that are liquid at room temperature;

- polydimethylsiloxanes comprising alkyl or alkoxy groups which are pendant and/or at the end of the silicone chain, the groups each containing from 2 to 24 carbon atoms;

- phenylsilicones; and

- hydrocarbons chosen from linear and branched, volatile and non-volatile hydrocarbons of synthetic and mineral origin.

50. The composition according to claim 1, wherein said at least one liquid fatty phase comprises at least one non-volatile oil.

51. The composition according to claim 50, wherein said at least one non-volatile oil is chosen from hydrocarbon-based oils of mineral, plant and synthetic origin, synthetic esters and ethers, and silicone oils.

52. The composition according to claim 1, wherein said at least one liquid fatty phase is present in an amount ranging from 1% to 99% by weight relative to the total weight of the composition.

53. The composition according to claim 52, wherein said at least one liquid fatty phase is present in an amount ranging from 5% to 95.5% by weight relative to the total weight of the composition.

54. The composition according to claim 52, wherein said at least one liquid fatty phase is present in an amount ranging from 10% to 80% by weight relative to the total weight of the composition.

55. The composition according to claim 52, wherein said at least one liquid fatty phase is present in an amount ranging from 20% to 75% by weight relative to the total weight of the composition.

56. The composition according to claim 1, wherein said at least one liquid fatty phase comprises at least one volatile solvent chosen from hydrocarbon-based solvents and silicone solvents optionally comprising alkyl or alkoxy groups that are pendant or at the end of a silicone chain.

57. The composition according to claim 56, wherein said at least one volatile solvent is present in an amount up to 95.5% relative to the total weight of the composition.

58. The composition according to claim 57, wherein said at least one volatile solvent is present in an amount ranging from 2% to 75% relative to the total weight of the composition.

59. The composition according to claim 58, wherein said at least one volatile solvent is present in an amount ranging from 10% to 45% relative to the total weight of the composition.

60. The composition according to claim 1, wherein said composition further comprises at least one additional fatty material.

61. The composition according to claim 60, wherein said at least one additional fatty material is chosen from gums, fatty materials pasty at ambient temperature, and resins.

62. The composition according to claim 1 further comprising at least one film forming polymer.

63. The composition according to claim 1, wherein said film-forming polymer is present in the composition in an amount ranging from 0.1% to 20% by weight relative to the total weight of the composition.

64. The cosmetic composition of claim 1, wherein said swelling agent comprises linear or cyclic polydimethylsiloxane.

65. The cosmetic composition of claim 64, wherein said polydimethylsiloxane comprises a cyclomethicone.

66. The cosmetic composition of claim 64, wherein said polydimethylsiloxane comprises a dimethicone.

67. The cosmetic composition of claim 1 wherein said swelling agent comprises a phenylmethicone.

68. The cosmetic composition of claim 1 wherein said swelling agent comprises a fluorinated silicone.

69. The cosmetic composition of claim 1, wherein said silicone resin comprises a polyorganosilsesquioxane.

70. The cosmetic composition of claim 1, wherein said silicone elastomer core is unfunctionalized.

71. The cosmetic composition of claim 1, wherein said silicone elastomer core contains pendant functional groups.

72. The cosmetic composition of claim 71, wherein said functional groups comprise fluoroalkyl groups.

73. The cosmetic composition of claim 71, wherein said functional groups comprise phenyl groups.

74. The cosmetic composition of claim 1, wherein said structural agent comprises a polyamide bonded to a fatty chain via an ester group, said swelling agent comprises a dimethicone, and said silicone resin comprises a polyorganosilsesquioxane.

75. The cosmetic composition of claim 1, wherein ratio of amount of said silicone elastomer powder to said structuring agent is from about 0.1 to about 9.0.

76. The cosmetic composition of claim 75, wherein the ratio is from about 0.5 to about 5.0.

77. The cosmetic composition of claim 75, wherein the ratio is from about 1.0 to about 4.0.

78. The cosmetic composition of claim 75, wherein the ratio is from about 1.0 to about 3.0.

79. The composition according to claim 1, wherein the composition is in a form chosen from a fluid simple emulsion, rigid simple emulsion, fluid multiple emulsion, and rigid multiple emulsion.

80. The composition according to claim 1, wherein said composition is a solid.

81. The composition according to claim 80, wherein said composition is a solid chosen from molded and poured sticks.

82. A composition in the form of an emulsion comprising at least one liquid fatty phase which comprises:

(i) at least one structuring polymer, wherein said at least one structuring polymer is at least one polyamide polymer comprising:

a polymer skeleton which comprises at least one amide repeating unit;

(ii) at least one sunscreen agent;

(iii) a silicone elastomer powder comprising a silicone elastomer core coated with a silicone resin; and

(iv) a swelling agent for said powder.

83. The composition according to claim 82, wherein said at least one polyamide polymer further comprises at least one of:

at least one terminal fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one terminal fatty chain is bonded to said polymer skeleton via at least one linking group; and

at least one pendant fatty chain chosen from alkyl chains and alkenyl chains, wherein said at least one pendant fatty chain is bonded to said polymer skeleton via at least one linking group.

84. The composition according to claim 83, wherein said alkyl chains and said alkenyl chains each comprise at least four carbon atoms.

85. The composition according to claim 84, wherein said alkyl chains and said alkenyl chains each comprise from 8 to 120 carbon atoms.

86. The composition according to claim 85, wherein said alkyl chains and said alkenyl chains each comprise from 12 to 68 carbon atoms.

87. The composition according to claim 83, wherein said at least one linking group is chosen from single bonds and urea, urethane, thiourea, thiourethane, thioether, thioester, ester, ether and amine groups.

88. The composition according to claim 87, wherein said at least one linking group is an ester group present in a proportion ranging from 15% to 40% of the total number of all ester and amide groups in the at least one polyamide polymer.

89. The composition according to claim 88, wherein said at least one linking group is an ester group present in a proportion ranging from 20% to 35% of the total number of all ester and amide groups in the at least one polyamide polymer.

90. The composition according to claim 83, wherein said at least one terminal fatty chain is functionalized.

91. The composition according to claim 83, wherein said at least one pendant fatty chain is functionalized.

92. The composition according to claim 83, wherein in said at least one polyamide polymer, the percentage of the total number of fatty chains ranges from 40% to 98% relative to the total number of all amide units and fatty chains in the at least one polyamide polymer.

93. The composition according to claim 92, wherein in said at least one polyamide polymer, the percentage of the total number of fatty chains ranges from 50% to 95% relative to the total number of all amide units and fatty chains in the at least one polyamide polymer.

94. The composition according to claim 82, wherein said at least one polyamide polymer has a weight-average molecular mass of less than 100,000.

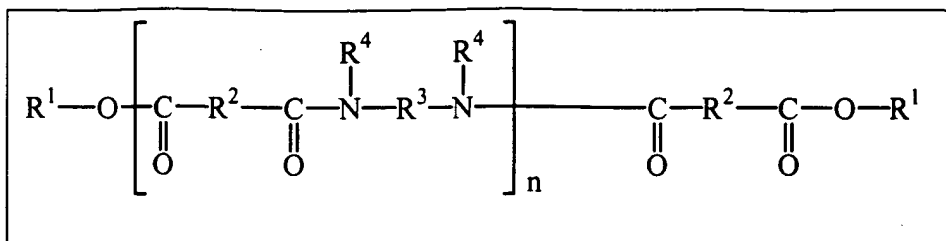
95. The composition according to claim 94, wherein said at least one polyamide polymer has a weight-average molecular mass of less than 50,000.

96. The composition according to claim 95, wherein said at least one polyamide polymer has a weight-average molecular mass ranging from 1000 to 30,000.

97. The composition according to claim 96, wherein said at least one polyamide polymer has a weight-average molecular mass ranging from 2000 to 20,000.

98. The composition according to claim 97, wherein said at least one polyamide polymer has a weight-average molecular mass ranging from 2000 to 10,000.

99. The composition according to claim 82, wherein said at least one polyamide polymer is chosen from polyamide polymers of formula (I):



in which:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;

- R^1 , which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;

- R^2 , which are identical or different, are each chosen from C_4 to C_{42} hydrocarbon-based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;

- R^3 , which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms with the proviso that R^3 comprises at least 2 carbon atoms; and

- R^4 , which are identical or different, are each chosen from hydrogen atoms, C_1 to C_{10} alkyl groups and a direct bond to at least one group chosen from R^3 and another R^4 such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by $\text{R}^4\text{---N---R}^3$, with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms.

100. The composition according to claim 99, wherein in said formula (I), n is an integer ranging from 1 to 5.

101. The composition according to claim 99, wherein in said formula (I), n is an integer ranging from 3 to 5.

102. The composition according to claim 99, wherein in said formula (I), said alkyl groups of R^1 and said alkenyl groups of R^1 each independently comprise from 4 to 24 carbon atoms.

103. The composition according to claim 102, wherein in said formula (I), R^1 , which are identical or different, are each chosen from C_{12} to C_{22} alkyl groups.

104. The composition according to claim 103, wherein in said formula (I), R^1 , which are identical or different, are each chosen from C_{16} to C_{22} alkyl groups.

105. The composition according to claim 99, wherein in said formula (I), R^2 , which are identical or different, are each chosen from C_{10} to C_{42} hydrocarbon based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon based groups.

106. The composition according to claim 105, wherein at least 75% of all R^2 , which are identical or different, are chosen from C_{30} to C_{42} hydrocarbon based groups.

107. The composition according to claim 106, wherein in said formula (I), R^3 , which can be identical or different, are each chosen from C_2 to C_{36} hydrocarbon-based groups and polyoxyalkylene groups.

108. The composition according to claim 107, wherein R^3 , which can be identical or different, are each chosen from C_2 to C_{12} hydrocarbon-based groups.

109. The composition according to claim 82, wherein in said formula (I), R^4 , which can be identical or different, are each chosen from hydrogen atoms.

110. The composition according to claim 82, wherein said at least one polymer of formula (I) is in the form of a mixture of polymers, wherein said mixture optionally also comprises a compound of formula (I) wherein n is equal to zero.

111. The composition according to claim 82, wherein said at least one polyamide polymer is chosen from polymers resulting from at least one polycondensation reaction between at least one dicarboxylic acid comprising at least 32 carbon atoms and at least one amine chosen from diamines comprising at least 2 carbon atoms and triamines comprising at least 2 carbon atoms.

112. The composition according to claim 82, wherein said at least one dicarboxylic acid comprises from 32 to 44 carbon atoms and said at least one amine comprises from 2 to 36 carbon atoms.

113. The composition according to claim 112, wherein said at least one dicarboxylic acid is chosen from dimers of at least one fatty acid comprising at least 16 carbon atoms.

114. The composition according to claim 113, wherein said at least one fatty acid is chosen from oleic acid, linoleic acid and linolenic acid.

115. The composition according to claim 114, wherein said at least one amine is chosen from ethylenediamine, hexylenediamine, hexamethylenediamine, phenylenediamine and ethylenetriamine.

116. The composition according to claim 82, wherein said at least one polyamide polymer is chosen from polymers comprising at least one terminal carboxylic acid group.

117. The composition according to claim 116, wherein said at least one terminal carboxylic acid group is esterified with at least one alcohol chosen from monoalcohols comprising at least 4 carbon atoms.

118. The composition according to claim 117, wherein said at least one polyamide polymer is chosen from:

- polymers chosen from mixtures of copolymers derived from monomers of (i) C₃₆ diacids and (ii) ethylenediamine, and having a weight-average molecular mass of about 6000;
- polyamide polymers resulting from the condensation of at least one aliphatic dicarboxylic acid and at least one diamine, the carbonyl and amine groups being condensed via an amide bond; and
- polyamide resins from vegetable sources.

119. The composition according to claim 82, wherein said at least one polyamide polymer has a softening point greater than 50 °C.

120. The composition according to claim 119, wherein said at least one polyamide polymer has a softening point ranging from 65 °C to 190 °C.

121. The composition according to claim 120, wherein said at least one polyamide polymer has a softening point ranging from 70 °C to 130 °C.

122. The composition according to claim 121, wherein said at least one polyamide polymer has a softening point ranging from 80 °C to 105 °C.

123. The composition according to claim 118, wherein said at least one polyamide polymer is present in the composition in an amount ranging from 0.5% to 80% by weight relative to the total weight of the composition.

124. The composition according to claim 123, wherein said at least one polyamide polymer is present in the composition in an amount ranging from 2% to 60% by weight relative to the total weight of the composition.

125. The composition according to claim 124, wherein said at least one polyamide polymer is present in the composition in an amount ranging from 5% to 40% by weight relative to the total weight of the composition.

126. The composition according to claim 82, wherein said at least one liquid fatty phase of the composition comprises at least one oil.

127. The composition according to claim 126, wherein said at least one oil is chosen from at least one polar oil and at least one apolar oil.

128. The composition according to claim 127, wherein said at least one polar oil is chosen from:

- hydrocarbon-based plant oils with a high content of triglycerides comprising fatty acid esters of glycerol in which the fatty acids comprise chains having from 4 to 24 carbon atoms, said chains optionally being chosen from linear and branched, and saturated and unsaturated chains;
- synthetic oils or esters of formula R_5COOR_6 in which R_5 is chosen from linear and branched fatty acid residues comprising from 1 to 40 carbon atoms and $R_5 + R_6 > 10$;
- synthetic ethers containing from 10 to 40 carbon atoms;

- C₈ to C₂₆ fatty alcohols; and
- C₈ to C₂₆ fatty acids.

129. The composition according to claim 127, wherein said at least one apolar oil is chosen from:

- silicone oils chosen from volatile and non-volatile, linear and cyclic polydimethylsiloxanes that are liquid at room temperature;
- polydimethylsiloxanes comprising alkyl or alkoxy groups which are pendant and/or at the end of the silicone chain, the groups each containing from 2 to 24 carbon atoms;
- phenylsilicones; and
- hydrocarbons chosen from linear and branched, volatile and non-volatile hydrocarbons of synthetic and mineral origin.

130. The composition according to claim 126, wherein said at least one liquid fatty phase comprises at least one non-volatile oil.

131. The composition according to claim 130, wherein said at least one non-volatile oil is chosen from hydrocarbon-based oils of mineral, plant and synthetic origin, synthetic esters and ethers, and silicone oils.

132. The composition according to claim 131, wherein said at least one liquid fatty phase is present in an amount ranging from 1% to 99% by weight relative to the total weight of the composition.

133. The composition according to claim 132, wherein said at least one liquid fatty phase is present in an amount ranging from 5% to 95.5% by weight relative to the total weight of the composition.

134. The composition according to claim 133, wherein said at least one liquid fatty phase is present in an amount ranging from 10% to 80% by weight relative to the total weight of the composition.

135. The composition according to claim 134, wherein said at least one liquid fatty phase is present in an amount ranging from 20% to 75% by weight relative to the total weight of the composition.

136. The composition according to claim 126, wherein said at least one liquid fatty phase comprises at least one volatile solvent chosen from hydrocarbon-based solvents and silicone solvents optionally comprising alkyl or alkoxy groups that are pendant or at the end of a silicone chain.

137. The composition according to claim 136, wherein said at least one volatile solvent is present in an amount up to 95.5% relative to the total weight of the composition.

138. The composition according to claim 137, wherein said at least one volatile solvent is present in an amount ranging from 2% to 75% relative to the total weight of the composition.

139. The composition according to claim 138, wherein said at least one volatile solvent is present in an amount ranging from 10% to 45% relative to the total weight of the composition.

140. The composition according to claim 126, wherein said composition further comprises at least one additional fatty material.

141. The composition according to claim 140, wherein said at least one additional fatty material is chosen from gums, fatty materials pasty at ambient temperature, and resins.

142. The composition according to claim 99, wherein the composition is in a form chosen from a fluid simple emulsion, rigid simple emulsion, fluid multiple emulsion, and rigid multiple emulsion.

143. The cosmetic composition of claim 82, wherein said swelling agent comprises linear or cyclic polydimethylsiloxane.

144. The cosmetic composition of claim 143, wherein said polydimethylsiloxane comprises a cyclomethicone.

145. The cosmetic composition of claim 143, wherein said polydimethylsiloxane comprises a dimethicone.

146. The cosmetic composition of claim 82, wherein said swelling agent comprises a phenylmethicone.

147. The cosmetic composition of claim 82, wherein said swelling agent comprises a fluorinated silicone.

148. The cosmetic composition of claim 82, wherein said silicone resin comprises a polyorganosilsesquioxane.

149. The cosmetic composition of claim 82, wherein said silicone elastomer core is unfunctionalized.

150. The cosmetic composition of claim 82, wherein said silicone elastomer core contains pendant functional groups.

151. The cosmetic composition of claim 150, wherein said functional groups comprise fluoroalkyl groups.

152. The cosmetic composition of claim 150, wherein said functional groups comprise phenyl groups.

153. The cosmetic composition of claim 82, wherein said structuring agent comprises a polyamide bonded to a fatty chain via an ester group, said swelling agent comprises a dimethicone, and said silicone resin comprises a polyorganosilsesquioxane.

154. The cosmetic composition of claim 82, wherein ratio of amount of said silicone elastomer powder to said structuring agent is from about 0.1 to about 9.0.

155. The cosmetic composition of claim 154, wherein the ratio is from about 0.5 to about 5.0.

156. The cosmetic composition of claim 154, wherein the ratio is from about 1.0 to about 4.0.

157. The cosmetic composition of claim 154, wherein the ration is from about 1.0 to about 3.0.

158. A method for increasing solar protection comprising the application of a composition according to claim 1.

159. A method for increasing solar protection comprising the application of a composition according to claim 99.

160. A foundation, mascara, eye liner, concealer, lipstick, blush for cheeks or eyelids, body makeup, sun screen, deodorant, colorant for skin or hair, skin care formula, shampoo, after shampoo treatment, or makeup removing product comprising:

at least one liquid fatty phase in said foundation, mascara, eye liner, concealer, lipstick, blush for cheeks or eyelids, body makeup, sun screen, deodorant, colorant for skin or hair, skin care formula, shampoo, after shampoo treatment, or makeup removing product which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom;

(ii) at least one sunscreen agent; and

(iii) a silicone elastomer powder comprising a silicone elastomer core coated with a silicone resin; and

(iv) a swelling agent for said powder.

161. A make-up and/or care and/or treatment composition for keratinous fibers comprising:

at least one liquid fatty phase in said composition which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom;

(ii) at least one sunscreen agent; and

(iii) a silicone elastomer powder comprising a silicone elastomer core coated with a silicone resin; and

(iv) a swelling agent for said powder.

162. A treatment, care or make-up composition for keratinous fibers comprising a structured composition containing at least one liquid fatty phase in said treatment,

care or make-up composition structured with at least one structuring polymer comprising a polymer skeleton comprising at least one hydrocarbon-based repeating unit comprising at least one hetero atom, at least one sunscreen agent, a silicone elastomer powder comprising a silicone elastomer core coated with a silicone resin; a swelling agent for said powder, and at least one coloring agent.

163. A method for care, make up, or treatment of a keratin material chosen from lips, skin, and keratinous fibers, comprising the application to said keratin material of a cosmetic composition comprising:

at least one liquid fatty phase which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom;

(ii) at least one sunscreen agent; and

(iii) a silicone elastomer powder comprising a silicone elastomer core coated with a silicone resin; and

(iv) a swelling agent for said powder.

164. A method for making a cosmetic composition in the form of a physiologically acceptable composition, comprising including in said composition at least one liquid fatty phase which comprises:

(i) at least one structuring polymer comprising:

a polymer skeleton which comprises at least one hydrocarbon-based repeating unit comprising at least one hetero atom;

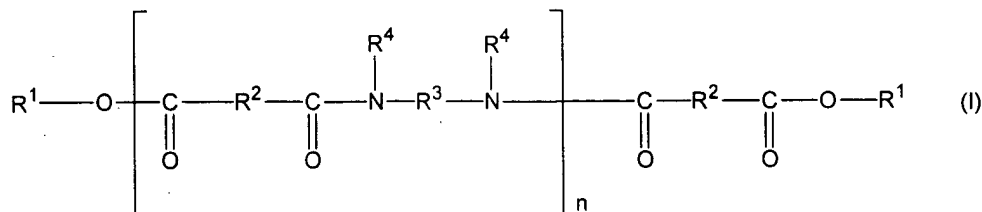
(ii) at least one sunscreen agent;

(iii) a silicone elastomer powder comprising a silicone elastomer core coated with a silicone resin; and

(iv) a swelling agent for said powder.

PENDING CLAIMS
Application No. 10/746,612
Attorney Docket No. 05725.1338-01000
Filed: December 22, 2003

1. A cosmetic composition, comprising: a structuring agent comprising a polymer skeleton having a hydrocarbon-based repeating unit comprising at least one hetero atom; a liquid fatty phase; a silicone elastomer powder comprising a silicone elastomer core coated with a silicone resin; and a swelling agent for said powder.
2. The cosmetic composition of claim 1, wherein said structuring agent further comprises at least one fatty chain bonded to said polymer skeleton.
3. The cosmetic composition of claim 2, wherein said fatty chain is a pendant chain.
4. The cosmetic composition of claim 2, wherein said fatty chain is a terminal chain.
5. The cosmetic composition of claim 4, wherein said fatty chain is bonded to said polymer skeleton via an ester group.
6. The cosmetic composition of claim 2, wherein said structuring agent comprises a plurality of fatty chains, including a terminal fatty chain.
7. The cosmetic composition of claim 2, wherein said fatty chain is functionalized.
8. The cosmetic composition of claim 1, wherein said polymer skeleton is a polyamide.
9. The cosmetic composition of claim 8, wherein said structuring agent is chosen from polyamide polymers of formula (I):



wherein:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;

- R^1 , which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;

- R^2 , which are identical or different, are each chosen from C_4 to C_{42} hydrocarbon-based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;

- R^3 , which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms, with the proviso that R^3 comprises at least 2 carbon atoms; and

- R^4 , which are identical or different, are each chosen from hydrogen atoms, C_1 to C_{10} alkyl groups and a direct bond to at least one group chosen from R^3 and another R^4 such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms.

10. The cosmetic composition of claim 1, wherein said swelling agent comprises linear or cyclic polydimethylsiloxane.

11. The cosmetic composition of claim 10, wherein said polydimethylsiloxane comprises a cyclomethicone.

12. The cosmetic composition of claim 10, wherein said polydimethylsiloxane comprises a dimethicone.

13. The cosmetic composition of claim 1 wherein said swelling agent comprises a phenylmethicone.

14. The cosmetic composition of claim 1 wherein said swelling agent comprises a fluorinated silicone.

15. The cosmetic composition of claim 1, wherein said silicone resin comprises a polyorganosilsesquioxane.

16. The cosmetic composition of claim 1, wherein said silicone elastomer core is unfunctionalized.

17. The cosmetic composition of claim 1, wherein said silicone elastomer core contains pendant functional groups.

18. The cosmetic composition of claim 17, wherein said functional groups comprise fluoroalkyl groups.

19. The cosmetic composition of claim 17, wherein said functional groups comprise phenyl groups.

20. The cosmetic composition of claim 1, wherein said structural agent comprises a polyamide bonded to a fatty chain via an ester group, said swelling agent comprises a dimethicone, and said silicone resin comprises a polyorganosilsesquioxane.

21. The cosmetic composition of claim 1, wherein said liquid fatty phase comprises a polar oil, an apolar oil, or a mixture of said polar and apolar oils.

22. The cosmetic composition of claim 1, which is in the form of an emulsion.

23. The cosmetic composition of claim 22, further comprising an aqueous phase.

24. The cosmetic composition of claim 22, which is anhydrous.

25. The cosmetic composition of claim 1, further comprising a film-forming agent.

26. The cosmetic composition of claim 1, further comprising a wax.

27. The cosmetic composition of claim 1, further comprising a sunscreen agent.

28. The cosmetic composition of claim 1, further comprising an emulsifier.

29. The cosmetic composition of claim 1, further comprising a plasticizer.

30. The cosmetic composition of claim 1, further comprising an additive.

31. The cosmetic composition of claim 30, wherein the additive comprises a pigment.

32. The cosmetic composition of claim 31, wherein said pigment is treated.

33. The cosmetic composition of claim 31, wherein said pigment is treated with an amino acid.

34. The cosmetic composition of claim 1, which is in the form of a solid, a paste, a gel or a cream.

35. The cosmetic composition of claim 1, which is in a molded form.

36. The cosmetic composition of claim 1, which is in the form of a stick or dish.

37. The cosmetic composition of claim 1, which is in the form of a powder.

38. A composition useful in the preparation of a cosmetic, comprising: a structuring agent comprising a polymer skeleton comprising a hydrocarbon-based repeating unit containing at least one hetero atom, and a silicone elastomer powder comprising a silicone elastomer core coated with a silicone resin.

39. The composition of claim 38, wherein said structuring agent further comprises at least one fatty chain bonded to said polymer skeleton.

40. The composition of claim 39, wherein said fatty chain is a pendant chain.

41. The composition of claim 39, wherein said fatty chain is a terminal chain.

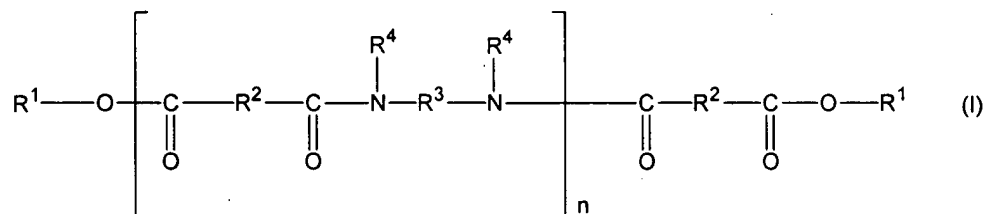
42. The composition of claim 41, wherein said fatty chain is bonded to said polymer skeleton via an ester group.

43. The composition of claim 38, wherein said structuring agent comprises a plurality of fatty chains, including a terminal fatty chain.

44. The composition of claim 38, wherein said fatty chain is functionalized.

45. The composition of claim 38, wherein said polymer skeleton is a polyamide.

46. The composition of claim 45, wherein said structuring agent is chosen from polyamide polymers of formula (I):



wherein:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;

- R^1 , which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;

- R^2 , which are identical or different, are each chosen from C_4 to C_{42} hydrocarbon-based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;

- R^3 , which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms, with the proviso that R^3 comprises at least 2 carbon atoms; and

- R^4 , which are identical or different, are each chosen from hydrogen atoms, C_1 to C_{10} alkyl groups and a direct bond to at least one group chosen from R^3 and another R^4 such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms.

47. A method for care, make-up or treatment of a keratin material, comprising applying to the keratin material a composition comprising a structuring agent comprising a polymer skeleton having a hydrocarbon-based repeating unit comprising at least one hetero atom; a liquid fatty phase; a silicone elastomer powder comprising a silicone elastomer core coated with a silicone resin; and a swelling agent for the powder.

48. The method of claim 47, wherein the keratin material comprises lips.

49. The method of claim 47, wherein the keratin material comprises skin.

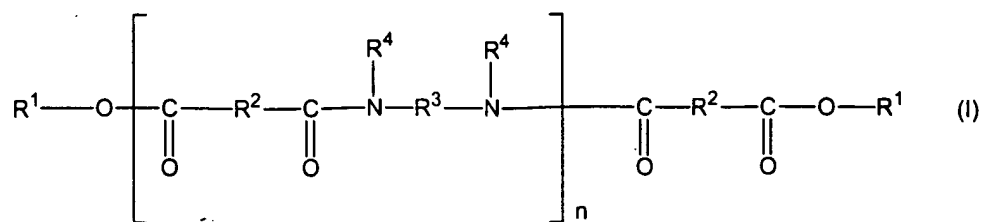
50. The method of claim 47, wherein the keratin material comprises keratinous fibers.

51. The method of claim 47, wherein the structural agent comprises a polyamide bonded to a fatty chain via an ester group, the swelling agent comprises a dimethicone, and the silicone resin comprises a polyorganosilsesquioxane.

52. The method of claim 47, wherein the composition further comprises a liquid phase comprising a liquid fatty phase and a swelling agent.

PENDING CLAIMS
Application No. 10/747,412
Attorney Docket No. 05725.1338-02000
Filed: December 22, 2003

1. A cosmetic composition, comprising: a structuring agent comprising a polymer skeleton having a hydrocarbon-based repeating unit comprising at least one hetero atom; a liquid fatty phase; a silicone elastomer powder comprising a silicone elastomer core coated with a silicone resin; and a swelling agent for said powder.
2. The cosmetic composition of claim 1, wherein said structuring agent further comprises at least one fatty chain bonded to said polymer skeleton.
3. The cosmetic composition of claim 2, wherein said fatty chain is a pendant chain.
4. The cosmetic composition of claim 2, wherein said fatty chain is a terminal chain.
5. The cosmetic composition of claim 4, wherein said fatty chain is bonded to said polymer skeleton via an ester group.
6. The cosmetic composition of claim 2, wherein said structuring agent comprises a plurality of fatty chains, including a terminal fatty chain.
7. The cosmetic composition of claim 2, wherein said fatty chain is functionalized.
8. The cosmetic composition of claim 1, wherein said polymer skeleton is a polyamide.
9. The cosmetic composition of claim 8, wherein said structuring agent is chosen from polyamide polymers of formula (I):



wherein:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;
- R^1 , which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;
- R^2 , which are identical or different, are each chosen from C_4 to C_{42} hydrocarbon-based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;
- R^3 , which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms, with the proviso that R^3 comprises at least 2 carbon atoms; and
- R^4 , which are identical or different, are each chosen from hydrogen atoms, C_1 to C_{10} alkyl groups and a direct bond to at least one group chosen from R^3 and another R^4 such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms.

10. The cosmetic composition of claim 1, wherein said swelling agent comprises linear or cyclic polydimethylsiloxane.

11. The cosmetic composition of claim 10, wherein said polydimethylsiloxane comprises a cyclomethicone.

12. The cosmetic composition of claim 10, wherein said polydimethylsiloxane comprises a dimethicone.

13. The cosmetic composition of claim 1 wherein said swelling agent comprises a phenylmethicone.

14. The cosmetic composition of claim 1 wherein said swelling agent comprises a fluorinated silicone.

15. The cosmetic composition of claim 1, wherein said silicone resin comprises a polyorganosilsesquioxane.

16. The cosmetic composition of claim 1, wherein said silicone elastomer core is unfunctionalized.

17. The cosmetic composition of claim 1, wherein said silicone elastomer core contains pendant functional groups.

18. The cosmetic composition of claim 17, wherein said functional groups comprise fluoroalkyl groups.

19. The cosmetic composition of claim 17, wherein said functional groups comprise phenyl groups.

20. The cosmetic composition of claim 1, wherein said structural agent comprises a polyamide bonded to a fatty chain via an ester group, said swelling agent

comprises a dimethicone, and said silicone resin comprises a polyorganosilsesquioxane.

21. The cosmetic composition of claim 1, wherein said liquid fatty phase comprises a polar oil, an apolar oil, or a mixture of said polar and apolar oils.

22. The cosmetic composition of claim 1, which is in the form of an emulsion.

23. The cosmetic composition of claim 22, further comprising an aqueous phase.

24. The cosmetic composition of claim 22, which is anhydrous.

25. The cosmetic composition of claim 1, further comprising a film-forming agent.

26. The cosmetic composition of claim 1, further comprising a wax.

27. The cosmetic composition of claim 1, further comprising a sunscreen agent.

28. The cosmetic composition of claim 1, further comprising an emulsifier.

29. The cosmetic composition of claim 1, further comprising a plasticizer.

30. The cosmetic composition of claim 1, further comprising an additive.

31. The cosmetic composition of claim 30, wherein the additive comprises a pigment.

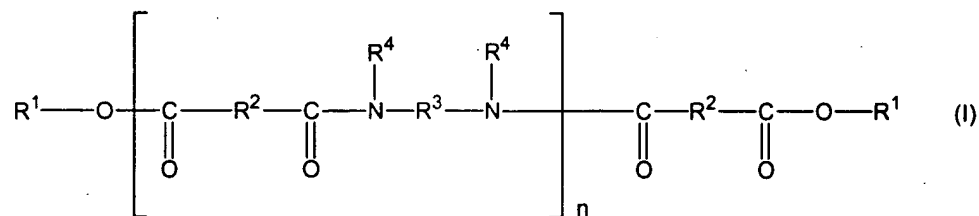
32. The cosmetic composition of claim 31, wherein said pigment is treated.

33. The cosmetic composition of claim 31, wherein said pigment is treated with an amino acid.

34. The cosmetic composition of claim 1, which is in the form of a solid, a paste, a gel or a cream.

35. The cosmetic composition of claim 1, which is in a molded form.

36. The cosmetic composition of claim 1, which is in the form of a stick or dish.
37. The cosmetic composition of claim 1, which is in the form of a powder.
38. A composition useful in the preparation of a cosmetic, comprising: a structuring agent comprising a polymer skeleton comprising a hydrocarbon-based repeating unit containing at least one hetero atom, and a silicone elastomer powder comprising a silicone elastomer core coated with a silicone resin.
39. The composition of claim 38, wherein said structuring agent further comprises at least one fatty chain bonded to said polymer skeleton.
40. The composition of claim 39, wherein said fatty chain is a pendant chain.
41. The composition of claim 39, wherein said fatty chain is a terminal chain.
42. The composition of claim 41, wherein said fatty chain is bonded to said polymer skeleton via an ester group.
43. The composition of claim 38, wherein said structuring agent comprises a plurality of fatty chains, including a terminal fatty chain.
44. The composition of claim 38, wherein said fatty chain is functionalized.
45. The composition of claim 38, wherein said polymer skeleton is a polyamide.
46. The composition of claim 45, wherein said structuring agent is chosen from polyamide polymers of formula (I):



wherein:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;

- R^1 , which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;

- R^2 , which are identical or different, are each chosen from C_4 to C_{42} hydrocarbon-based groups with the proviso that at least 50% of all R^2 are chosen from C_{30} to C_{42} hydrocarbon-based groups;

- R^3 , which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms, with the proviso that R^3 comprises at least 2 carbon atoms; and

- R^4 , which are identical or different, are each chosen from hydrogen atoms, C_1 to C_{10} alkyl groups and a direct bond to at least one group chosen from R^3 and another R^4 such that when said at least one group is chosen from another R^4 , the nitrogen atom to which both R^3 and R^4 are bonded forms part of a heterocyclic structure defined in part by R^4-N-R^3 , with the proviso that at least 50% of all R^4 are chosen from hydrogen atoms.

47. A method for care, make-up or treatment of a keratin material, comprising applying to the keratin material a composition comprising a structuring agent comprising a polymer skeleton having a hydrocarbon-based repeating unit comprising at least one

hetero atom; a liquid fatty phase; a silicone elastomer powder comprising a silicone elastomer core coated with a silicone resin; and a swelling agent for the powder.

48. The method of claim 47, wherein the keratin material comprises lips.

49. The method of claim 47, wherein the keratin material comprises skin.

50. The method of claim 47, wherein the keratin material comprises keratinous fibers.

51. The method of claim 47, wherein the structural agent comprises a polyamide bonded to a fatty chain via an ester group, the swelling agent comprises a dimethicone, and the silicone resin comprises a polyorganosilsesquioxane.

52. The method of claim 47, wherein the composition further comprises a liquid phase comprising a liquid fatty phase and a swelling agent.

PENDING CLAIMS
Application No. 10/203,375
Attorney Docket No. 06028.0018
Filed: August 9, 2002

19. A transparent or translucent colored cosmetic composition for making up at least one of skin, lips and superficial body growths, comprising a bulk transparent or translucent cosmetic base and at least one coloring agent in an amount such that the transmission of a 10 μ m layer of the composition measured at a wavelength of a maximum of an absorption or scattering peak of the coloring agent ranges from 20% to 80%.

20. The colored cosmetic composition according to claim 19, wherein the transparent or translucent cosmetic base is a substantially colorless base.

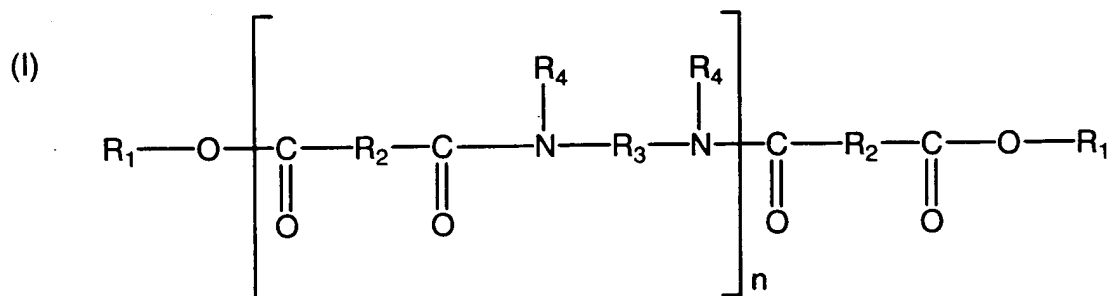
21. The colored cosmetic composition according to claim 19, wherein the cosmetic base is chosen from aqueous gels and oily gels.

22. The colored cosmetic composition according to claim 21, wherein the gel is in stick form.

23. The colored cosmetic composition according to claim 19, wherein the base is an anhydrous gel formed from a fatty phase which is liquid at ambient temperature comprising an oil chosen from polar oils and nonpolar oils, wherein the fatty phase is structured by a gelling agent for fatty phases which is chosen from at least

one of hydrophobic pyrogenic silicas, gelling polyamides, and hydrophobic galactomannans.

24. The colored cosmetic composition according to claim 23, wherein the gelling polyamide corresponds to the formula (I):



in which n represents a whole number such that the number of ester groups ranges from 10% to 50% of the total number of the ester and amide groups;

R₁, which may be identical or different, represents a group chosen from alkyls having at least 4 carbon atoms and alkenyls having at least 4 carbon atoms;

R₂, which may be identical or different, represents a C₄ to C₄₂ hydrocarbonaceous group, provided that 50% of the R₂ groups represent a C₃₀ to C₄₂ hydrocarbonaceous group;

R₃, which may be identical or different, represents an organic group having at least 2 carbon atoms, hydrogen atoms, and optionally at least one atom chosen from oxygen atoms and nitrogen atoms; and

R₄, which may be identical or different, represents a group chosen from hydrogen atoms, C₁ to C₁₀ alkyls, optionally directly bonded to R₃ or to another R₄, so that the nitrogen atom to which both R₃ and R₄ are bonded forms part of a heterocyclic structure defined by R₄-N-R₃, with at least 50% of the R₄ groups representing a hydrogen atom.

25. The colored cosmetic composition according to claim 24, wherein R₁, which may be identical or different, represents a group chosen from alkyls having 4 to 24 carbon atoms and alkenyls having 4 to 24 carbon atoms.

26. The colored cosmetic composition according to claim 19, wherein the coloring agent is chosen from at least one of water-soluble dyes, fat-soluble dyes, pigments, pearlescence agents, and lakes.

27. The colored cosmetic composition according to claim 26, wherein the water-soluble dye is chosen from at least one of extracts of sorghum, *Pterocarpus soyauxii*, *Monascus*, *Lawsonia inermis*, *Mercurialis perenis*, *Helianthus aanus*, *Impatiens balsamina*, *Curcuma longa*, *Phytolacca decandra*, *Solidago aureus*, *Juglans regia*, *Iris germanica*, *Alkanna tinctoria*, *Chrozophoro tinctoria*, and *Isatis tinctoria*.

28. The colored cosmetic composition according to claim 26, wherein the fat-soluble dye is chosen from at least one of Sudan red III, lutein, quinizarin green, alizural purple SS, carotenoid derivatives, annatto derivatives, and fuchsin derivatives.

29. The colored cosmetic composition according to claim 28, wherein the carotenoid derivative is chosen from lycopene, β -carotene, bixin, and capsantein.

30. The colored cosmetic composition according to claim 26, wherein the pigment is chosen from at least one of white inorganic pigments, ~~or~~ colored inorganic pigments, white coated inorganic pigments, colored coated inorganic pigments, white organic pigments, and colored organic pigments.

31. (Cancelled)

32. The colored cosmetic composition according to claim 26, wherein the pearlescence agent is chosen from mica covered with at least one of titanium oxide and bismuth oxychloride and titanium oxide-coated mica covered with at least one of iron oxide, ferric blue, chromium oxide, and precipitated organic pigments.

33. The colored cosmetic composition according to claim 26, wherein the lake is chosen from at least one of lakes based on cochineal carmine, lakes based on at least one of calcium salts, barium salts, aluminum salts, strontium salts, and ~~or~~ zirconium salts, and lakes based on acid dyes.

34. The colored cosmetic composition according to claim 26, wherein the composition comprises at least one dye chosen from water-soluble dyes and fat-soluble dyes, wherein the dye is soluble in the cosmetic base.

35. The colored cosmetic composition according to claim 34, wherein the composition comprises, as the coloring agent, at least one dye which is soluble in the

cosmetic base and wherein the composition is devoid of insoluble coloring agents chosen from pigments, pearlescence agents, and lakes.

36. The colored cosmetic composition according to claim 34, wherein the cosmetic base is a lipophilic base and wherein the composition comprises at least one lipophilic dye which is soluble in the lipophilic base.

37. The colored cosmetic composition according to claim 19, wherein the coloring agent is present in an amount such that the transmission of the 10 μm layer of the composition measured at the wavelength of the maximum of the absorption or scattering peak of the coloring agent ranges from 25% to 80%.

38. The colored cosmetic composition according to claim 19, wherein the amount of coloring agent ranges from 0.05% to 3% by weight with respect to the total weight of the composition.

39. The colored cosmetic composition according to claim 19, wherein the amount of coloring agent ranges from 0.1% to 1% by weight with respect to the total weight of the composition.

40. The colored cosmetic composition according to claim 19, wherein the composition is chosen from anhydrous lipstick forms ~~or~~ and anhydrous foundation forms.

41. A process for the preparation of a transparent or translucent colored cosmetic composition for making up skin, lips and superficial body growths, comprising a bulk transparent or translucent cosmetic base and at least one coloring agent in an amount such that the transmission of a 10 μm layer of the composition measured at a wavelength of a maximum of an absorption or scattering peak of the coloring agent ranges from 20% to 80%, wherein the process comprises:

- (1) selecting the cosmetic base,
- (2) preparing a series of samples of the cosmetic base comprising increasing amounts of the coloring agent dissolved or dispersed in the cosmetic base,
- (3) spreading each of the samples thus prepared over a translucent slide having a recess with depth of 10 μm ,
- (4) optionally leveling the sample so as to obtain an even layer with a thickness of 10 μm ,
- (5) measuring, for each of the samples, the transmission of the layer at the wavelength corresponding to the maximum of the absorption or scattering peak (λ_{max}) of the coloring agent,
- (6) plotting a calibration curve wherein the values of the transmission at (λ_{max}) is a function of the concentration of the coloring agent, and
- (7) incorporating the at least one coloring agent in a transparent or translucent cosmetic base which is identical or different from that selected in step (1) above and which is in a liquid state, the at least one coloring agent being incorporated

in the cosmetic base in an amount which, according to the calibration curve prepared for each coloring agent, results in a transmission at 10 μ m of ranging from 20% to 80%.

42. The process as claimed in claim 41, wherein the transmission in step (7) ranges from 25% to 80%.

43. The colored cosmetic composition according to claim 30, wherein the pigment is chosen from at least one of titanium dioxide, zirconium dioxide, cerium dioxide, zinc oxide, iron oxide, chromium oxide, ferric blue, chromium hydrate, carbon black, ultramarines, manganese violet, manganese pyrophosphate, and metal powders.

44. The colored cosmetic composition as claimed in claim 43, wherein the metal powder is chosen from silver powders and aluminum powders.

PENDING CLAIM
Application No. 10/203,374
Attorney Docket No. 06028.0019
Filed: August 9, 2002

17. A process for making a colored make-up cosmetic composition which produces a transparent or translucent colored coat on at least one of the skin, lips and superficial body growths, comprising the following successive steps:

(1) selecting a cosmetically acceptable base having at least one of bulk opaqueness, translucency and transparency,

(2) preparing at least one series of samples of the cosmetic base, each series comprising increasing amounts of a coloring agent dissolved or dispersed in the cosmetically acceptable base,

(3) spreading each of the samples of the at least one series over a transparent slide having a recess with a depth of 10 μm ,

(4) measuring, for each of the samples of the at least one series, the transmission of the layer thus formed at a wavelength corresponding to the maximum of the absorption or scattering peak (λ_{max}) of the coloring agent,

(5) drawing a calibration curve by plotting the values of the transmission at λ_{max} as a function of the concentration of the coloring agent,

(6) selecting, from the calibration curve thus obtained, a concentration of the coloring agent corresponding to a transmission at λ_{max} ranging from 20% to 80%, and

(7) incorporating the at least one coloring agent from the at least one series, at the concentration selected in step (6), in a cosmetic base in the liquid state and identical to or different from that used in step (1).

18. The process according to claim 17, wherein, in step (6), the concentration of the coloring agent corresponding to a transmission at λ_{\max} ranging from 25% to 80% is selected from the calibration curve.

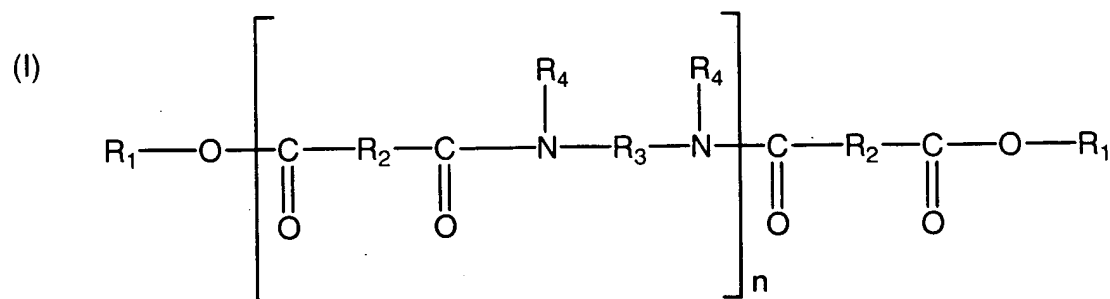
19. The process according to claim 17, wherein the cosmetically acceptable base is a substantially colorless base.

20. The process according to claim 17, wherein the cosmetically acceptable base is chosen from aqueous gels and oily gels.

21. The process according to claim 20, wherein the gel is in stick form.

22. The process according to claim 17, wherein the cosmetically acceptable base is an anhydrous gel formed from a fatty phase which is liquid at ambient temperature comprising an oil chosen from polar oils and nonpolar oils, wherein the fatty phase is structured by a gelling agent for fatty phases which is chosen from at least one of hydrophobic pyrogenic silicas, gelling polyamides, and hydrophobic galactomannans.

23. The process according to claim 22, wherein the gelling polyamide corresponds to the formula (I):



in which n represents a whole number such that the number of ester groups ranges from 10% to 50% of the total number of the ester and amide groups;

R₁, which may be identical or different, represents a group chosen from alkyls having at least 4 carbon atoms and alkenyls having at least 4 carbon atoms;

R₂, which may be identical or different, represents a C₄ to C₄₂ hydrocarbonaceous group, provided that 50% of the R₂ groups represent a C₃₀ to C₄₂ hydrocarbonaceous group;

R₃, which may be identical or different, represents an organic group having at least 2 carbon atoms, hydrogen atoms, and optionally at least one atom chosen from oxygen atoms and nitrogen atoms; and

R₄, which may be identical or different, represents a group chosen from hydrogen atoms, C₁ to C₁₀ alkyls, optionally directly bonded to R₃ or to another R₄, so that the nitrogen atom to which both R₃ and R₄ are bonded forms part of a heterocyclic structure defined by R₄-N-R₃, with at least 50% of the R₄ groups representing a hydrogen atom.

24. The process according to claim 23, wherein each R_1 , which may be identical or different, is chosen from alkyls having 4 to 24 carbon atoms and alkenyls having 4 to 24 carbon atoms.

25. The process according to claim 22, wherein the modified clay is a hectorite modified by a C_{12} - C_{22} fatty acid ammonium chloride.

26. The process according to claim 17, wherein the coloring agent is chosen from at least one of water-soluble dyes, fat soluble dyes, pigments, pearlescence agents, and lakes.

27. The process according to claim 26, wherein the water-soluble dye is chosen from at least one of extracts of sorghum, *Pterocarpus soyauxii*, *Monascus*, *Lawsonia inermis*, *Mercurialis perenis*, *Helianthus aanus*, *Impatiens balsamina*, *Curcuma longa*, *Phytolacca decandra*, *Solidago aureus*, *Juglans regia*, *Iris germanica*, *Alkanna tinctoria*, *Chrozophoro tinctoria*, and *Isatis tinctoria*.

28. The process according to claim 26, wherein the fat-soluble dye is chosen from at least one of Sudan red III, lutein, quinizarin green, alizural purple SS, carotenoid derivatives, annatto derivatives, and fuchsin derivatives.

29. The process according to claim 28, wherein the carotenoid derivative is chosen from lycopene, β -carotene, bixin, and capsantein.

30. The process according to claim 26, wherein the pigment is chosen from at least one of white inorganic pigments, colored inorganic pigments, white coated inorganic pigments, white organic pigments, colored coated inorganic pigments, and colored organic pigments.

31. (Cancelled)

32. The process according to claim 26, wherein the pearlescence agent is chosen from mica covered with at least one of titanium oxide and bismuth oxychloride and titanium oxide-coated mica covered with at least one of iron oxide, ferric blue, chromium oxide, and precipitated organic pigments.

33. The process according to claim 26, wherein the lake is chosen from at least one of lakes based on cochineal carmine, lakes based on at least one of calcium salts, barium salts, aluminum salts, strontium salts, and zirconium salts, and lakes based on acid dyes.

34. The process according to claim 17, wherein the process comprises, between steps (3) and (4), an additional step comprising leveling the excess of the sample so as to obtain a layer with a homogenous thickness of 10 μm .

35. The process according to claim 17, wherein the transparent slide is a quartz slide.

36. A colored make-up cosmetic composition with controlled transmission prepared according to a process comprising the following successive steps:

- (1) selecting a cosmetically acceptable base having at least one of bulk opaqueness, translucency and transparency,
- (2) preparing at least one series of samples of the cosmetic base, each series comprising increasing amounts of a coloring agent dissolved or dispersed in the cosmetically acceptable base,
- (3) spreading each of the samples of the at least one series over a transparent slide having a recess with a depth of 10 μm ,
- (4) measuring, for each of the samples of the at least one series, the transmission of the layer thus formed at a wavelength corresponding to the maximum of the absorption or scattering peak (λ_{max}) of the coloring agent,
- (5) drawing a calibration curve by plotting the values of the transmission at λ_{max} as a function of the concentration of the coloring agent,
- (6) selecting, from the calibration curve thus obtained, a concentration of the coloring agent corresponding to a transmission at λ_{max} ranging from 20% to 80%, and

(7) incorporating at least one second coloring agent from the at least one series, at the concentration selected in step (6), in a second cosmetic base in a liquid state identical to or different from that used in step (1).

37. The process according to claim 30, wherein the pigment is chosen from at least one of titanium dioxide, zirconium dioxide, cerium dioxide, zinc oxide, iron oxide, chromium oxide, ferric blue, chromium hydrate, carbon black, ultramarines, manganese violet, manganese pyrophosphate, and metal powders.

38. The process according to claim 31, wherein the metal powder is chosen from silver powders and aluminum powders.